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ABSTRACT

This document is the answer key for level 4 of the teacher-developed mathematics curriculum for New York City schools. Approximately 235 performance objectives are listed, with reference to the appropriate worksheet(s) for each. The answers are typed in the appropriate space on each sheet; when varied answers are possible, this is noted. (MNS)

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LEVEL 4

SE 049 721

EXPERIMENTAL ★

CIMS

COMPREHENSIVE INSTRUCTIONAL MANAGEMENT SYSTEM

A Cyclical Mathematics Curriculum

Answer Key

NEW YORK CITY BOARD OF EDUCATION
OFFICE OF CURRICULUM DEVELOPMENT AND SUPPORT
DIVISION OF CURRICULUM & INSTRUCTION

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It is the commitment of the Comprehensive Instructional Management System (CIMS) to develop a teacher-designed curriculum, a computer assisted assessment system and to provide ongoing staff development that is responsive to the needs of the teachers and supervisors who are using the program.

In response to the many requests from the teachers using the CIMS curriculum, we have produced an answer key document. It is our intention that the answers provided in this document will prove to be time efficient which would allow the teachers to add the time saved to planning and preparing for the delivery of mathematics instruction. We hope that you, the teachers and supervisors of the Comprehensive Instructional Management system, will find this answer key useful.

This answer key was developed as a project by the Comprehensive Instructional Management System (CIMS) of the Division of Curriculum and Instruction, Pearl Warner, Executive Director (Acting), Susan Zakaluk, Director of Mathematics, Arthur Flug and Doreen D. Genkin, Assistant Directors of CIMS.

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P.O. 4.14.01.01 - .02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Add across and down to find the magic sum.

Add →

3	6	9
4	4	8
7	10	17

7	2	9
6	3	9
13	5	18

4	5	9
2	1	3
6	6	12

9	4	13
0	0	0
9	4	13

3	2	5
4	3	7
7	5	12

Write your own.

Answers will vary.

Subtract across and down to find the magic difference.

Subtract →

7	4	3
4	2	2
3	2	1

9	5	4
8	5	3
1	0	1

13	7	6
9	5	4
4	2	2

16	7	9
9	4	5
7	3	4

12	7	5
6	2	4
6	5	1

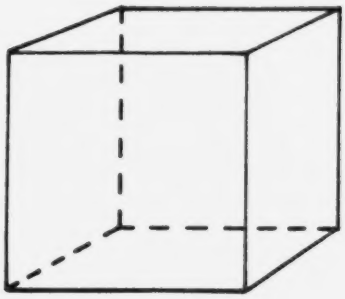
Write your own.

Answers will vary.

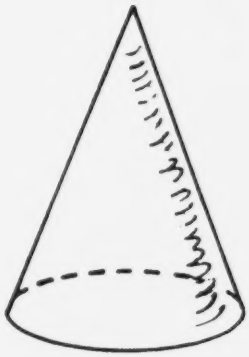
P.O. 4.09.01.01

NAME: _____ CLASS: _____ DATE: _____

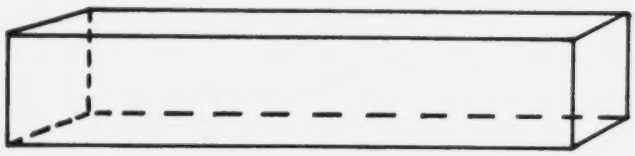
Use this worksheet with strategy 1.



cube

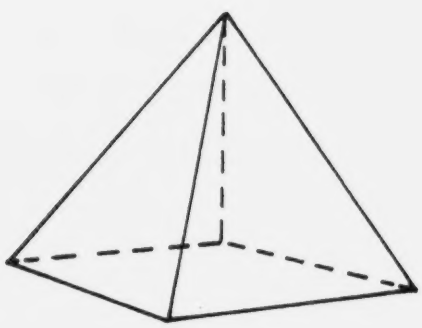


cone



rectangular prism

cylinder



pyramid

P.O. 4.09.01.01

NAME: _____ CLASS: _____ DATE: _____

Write the name of the solid geometric figure on the line below each picture.

Do you know me?

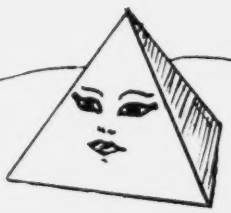
WANTED

Calvin the *cone*

CREDIT CARD

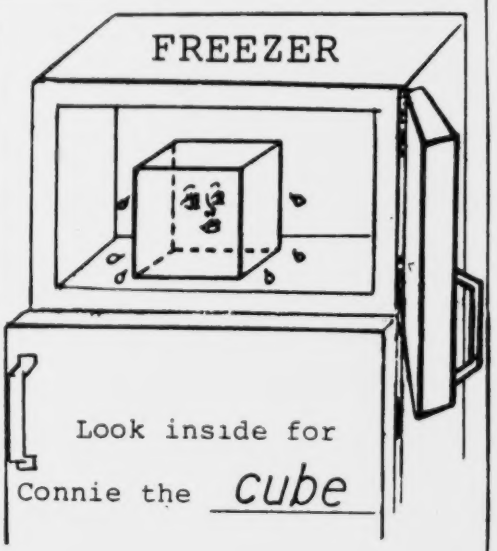
Ralph the *rectangular prism*

VISIT EGYPT AND SEE



Polly the *pyramid*

FREEZER



Look inside for Connie the *cube*

SECRET GUEST

Cindy the *cylinder*

P.O. 4.09.01.02

NAME: _____ CLASS: _____ DATE: _____

In each example below there are objects we see every day.
Write the name of the shape of each object.

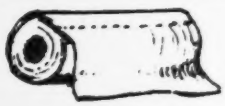
What Shape Am I?

Ice is a cube.

A party hat is a cone.

A bar of soap is a rectangular prism.

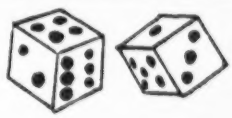
A refrigerator is a rectangular prism.



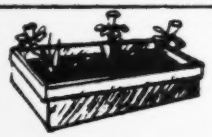
A roll of paper towels is a cylinder.

An Indian tent is a cone.

A can of soda is a cylinder.



Dice are cubes.



A flower box is a rectangular prism.

An ice cream cone is a cone.

CHALLENGE! MISSING IN ACTION

In each shape below, you see some of its faces.
How many faces can't you see?

cube: 4

cone: 1

cylinder: 1

rectangular prism: 3

pyramid: 3

P.O. 4.09.01.03

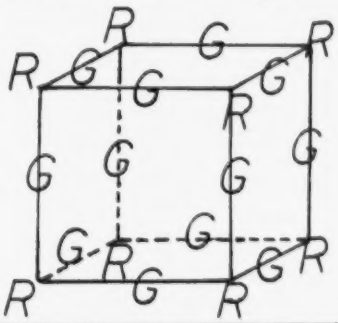
NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

On the lines below the pictures, write the number of faces each figure has.

6 1 2 6 5

Use a red crayon to draw a point on each vertex of this cube. Use a green crayon to trace each edge.



A cube has 8 vertices.

A cube has 12 edges.

When line segments meet or cross, angles are formed. How many angles are formed in each picture below?

4 1 2 4

Circle the letter of the pictures which show right angles: a (b) (c) (d)

How many right angles can you count in all? 7

P.O. 4.14.02.01

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Count by tens and write the missing numbers in each row.

A. 120, 130, 140, 150, 160, 170, 180, 190, 200

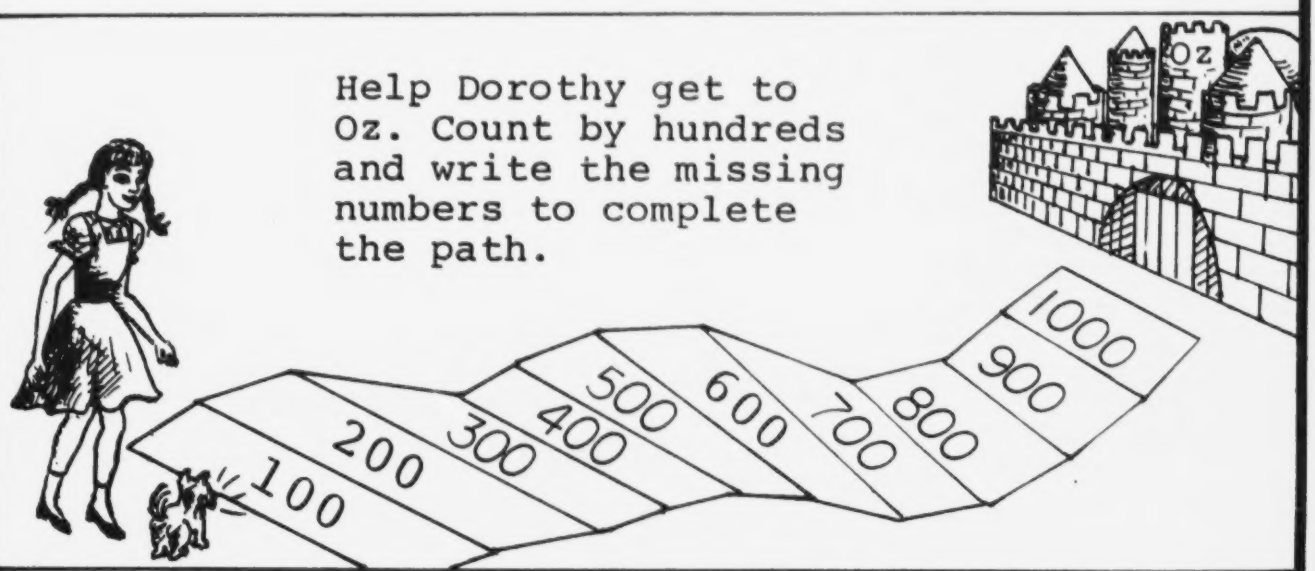
B. 750, 760, 770, 780, 790, 800, 810, 820, 830

C. 490, 500, 510, 520, 530, 540, 550, 560, 570

D. 280, 290, 300, 310, 320, 330, 340, 350, 360

E. 660, 670, 680, 690, 700, 710, 720, 730, 740

Help Dorothy get to Oz. Count by hundreds and write the missing numbers to complete the path.



Do you remember?

4 x 6 = 24 3 x 7 = 21 6 x 6 = 36

7 x 2 = 14	6 x 3 = 18	6 x 7 = 42	7 x 8 = 56	6 x 5 = 30

P.O. 4.14.02.02-.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Write each number in expanded notation.

a. 7,643 = 7000+600 + 40 + 3

b. 3,974 = 3,000+900+ 70+4

c. 1,405 = 1,000+ 400+5

d. 8,830 = 8,000+800+30

e. 5,079 = 5,000+70 + 9

f. 2,751 = 2,000+700+50+1

g. 6,200 = 6,000+200

Write each expanded number in standard form.

a. 5,000 + 700 + 20 + 8 = 5,728

b. 2,000 + 200 + 30 = 2,230

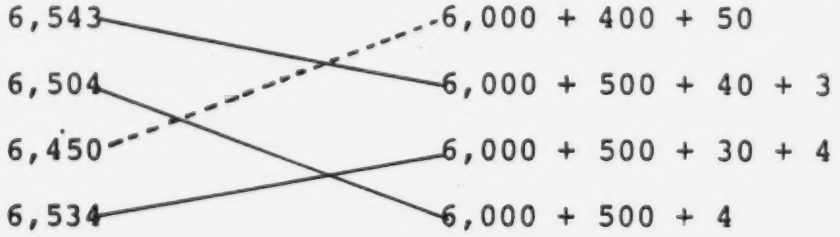
c. 6,000 + 900 + 10 + 5 = 6,915

d. 8,000 + 70 + 1 = 8,071

e. 4,000 + 500 + 50 + 7 = 4,557

f. 1,000 + 800 + 70 + 6 = 1,876

Draw a line to connect each number with its expanded form.



CHALLENGE!

Write the number represented by the words below.

one thousand, two hundred eighty-four = 1,284

six thousand, twenty-five = 6,025

four thousand, eight hundred seven = 4,807

SHARPENING YOUR SKILLS

Units 1, 2, 3

Name: _____ **Class:** _____ **Date:** _____

1. 5 + 7 = ☐

(a) 11
(c) 2
● 12
(d) 13

2. 12 - 9 = ☐

● 3
(g) 21
(f) 4
(h) 17

3. 18
−9
☐

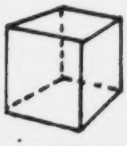
(a) 8
● 9
(c) 11
(d) 10

4. 8
+6
☐

(e) 15
(f) 3
(g) 2
● 14

5.

This figure is a *cone*.

6. 

This figure is a *cube*.

7.

This figure is a *pyramid*.

8. Write the missing numbers.

10, 20, 30, 40, 50, 60

9. Write the missing numbers.

150, 160, 170, 180, 190, 200

10. Write the missing numbers.

300, 400, 500, 600, 700, 800

11. 4,786 = ?

(a) 4,000 + 700 + 60 + 8
● 4,000 + 700 + 80 + 6
(c) 4,000 + 700 + 60
(d) 4,000 + 800 + 70 + 6

12. 3,000 + 50 + 7 = ?

(e) 3,577
(g) 3,507
(f) 357
● 3,057

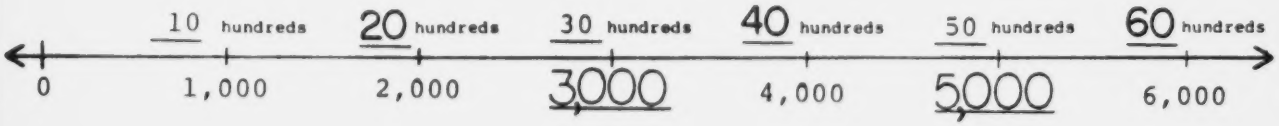
NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Each number has been written one way. Write each number two other ways.

10	hundreds	=	1	thousand	=	1,000
50	hundreds	=	5	thousands	=	5,000
80	hundreds	=	8	thousands	=	8,000
60	hundreds	=	6	thousands	=	6,000
20	hundreds	=	2	thousands	=	2,000
70	hundreds	=	7	thousands	=	7,000
30	hundreds	=	3	thousands	=	3,000
40	hundreds	=	4	thousands	=	4,000
90	hundreds	=	9	thousands	=	9,000

Write the missing number on the number line.



CHALLENGE!

4,500 =	45	hundreds	6,100 =	61	hundreds
6,700 =	67	hundreds	7,800 =	78	hundreds
2,900 =	29	hundreds	9,900 =	99	hundreds

P.O. 4.01.01.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Circle the greatest number in each set of three.			Circle the least number in each set of three.		
825	811	(852)	8,531	7,996	(6,249)
(7,627)	5,422	6,772	3,185	(2,386)	3,211
2,001	(2,101)	1,999	5,280	(5,218)	5,281

Write these numbers in increasing order.

4,366,	4,633,	3,998	3,998	4,366	4,633
6,101,	5,998,	6,093	5,998	6,093	6,101
2,383,	1,792,	1,599	1,599	1,792	2,383
3,087,	2,898,	3,024	2,898	3,024	3,087

Write these numbers in decreasing order.

3,857,	2,859,	2,960	3,857	2,960	2,859
1,052,	998,	1,111	1,111	1,052	998
2,096,	1,997,	1,059	2,096	1,997	1,059
7,088,	7,998,	8,562	8,562	7,998	7,088

CHALLENGE! 2 6 9 7

There are 24 numbers that can be written using all four of these digits. How many can you write? List them in increasing order on a separate piece of paper.

P.O. 4.12.01.01

NAME: _____ CLASS: _____ DATE: _____

(1) Indicate the frequency next to each tally.

Tally	Frequency	Tally	Frequency
///	3	𝍸 𝍸	10
𝍸	5	𝍸 𝍸 ///	13
𝍸 𝍸	10	𝍸 𝍸 𝍸	15

(2) Fill in the missing items for each table of data.

Times We Played Ball	Tally	Frequency
March	////	4
April	𝍸 ///	8
May	𝍸 𝍸	10

Times It Snowed	Tally	Frequency
December	////	4
January	𝍸 /	6
February	𝍸 𝍸	10

(3) It rained 3 days in October, 7 days in November, and 11 days in December. Use this table for tallying the number of days it rained each month. Then write the frequency for each month.

Rainy Days	Tally	Frequency
October	///	3
November	𝍸 //	7
December	𝍸 𝍸 /	11

CHALLENGE!

Which vowel do you think is used most frequently?

Answers will vary.

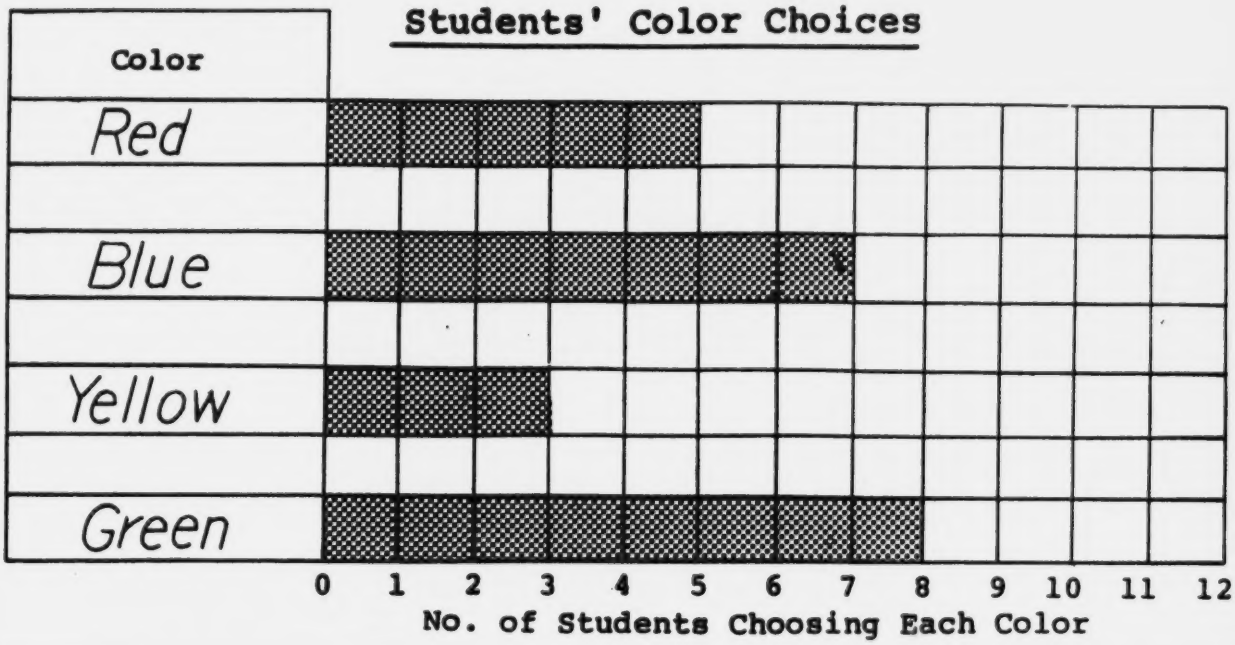
Select a paragraph from one of your textbooks or from the newspaper. Make a frequency table to record this information. Then make a bar graph to show your findings. If you can, make a horizontal and a vertical bar graph.

P.O. 4.12.01.02

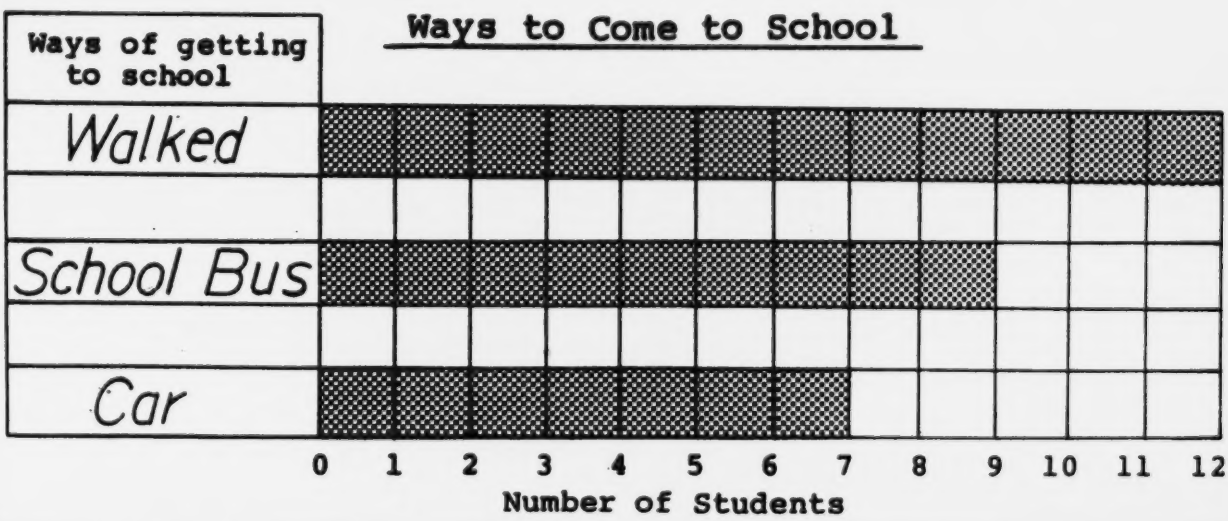
NAME: _____ CLASS: _____ DATE: _____

Complete each bar graph using the information given.

For an art project, 5 students chose red paper, 7 chose blue, 3 chose yellow, and 8 chose green. Show the number of students who chose each color.



A poll of class 4-204 showed that 12 students walked to school, 9 rode the school bus, and 7 came by car. Show the number of students who came to school each way.



12

P.O. 4.12.01.03

NAME: _____ CLASS: _____ DATE: _____

Use the line graphs to answer the questions.

Games Won in Gym

(a) How many games were won in October? 3

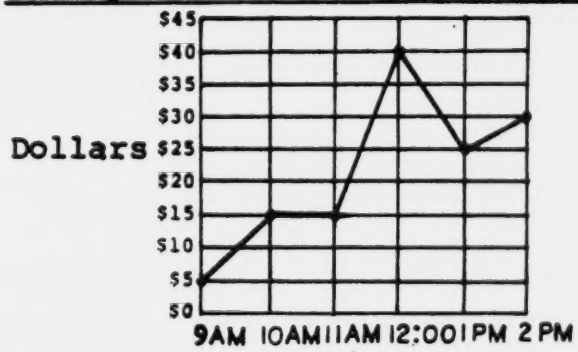
(b) In what months did we win the same number of games?
In Nov. and Dec. we won the same number of games.

(c) In what months did we win the least amount of games?
In Nov. and Dec. we won the least amount of games

(d) When did we win the most games? We won the most in Feb.

(e) How many games did we win in all? 20

Money Earned in Cake Sale



(a) When did we sell the least amount of cake? 9AM.

(b) When did we sell the most? 12:00

(c) Between which times was there the greatest increase in sales?
Between 11 A.M. and 12:00 there was the greatest increase.

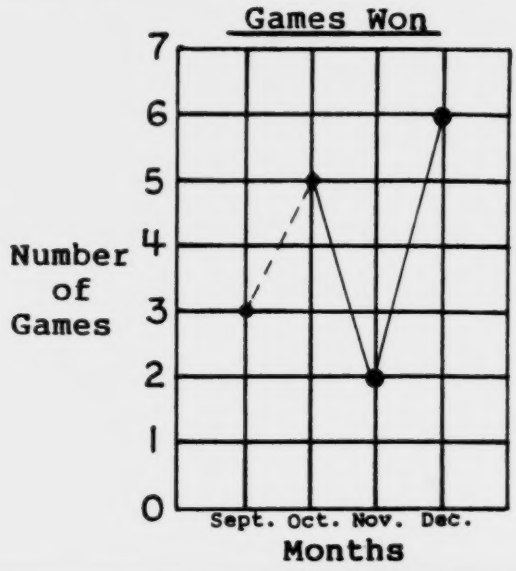
(d) Between what times did sales decrease? Sales decreased between 12:00 and 1 P.M.

P.O. 4.12.01.04

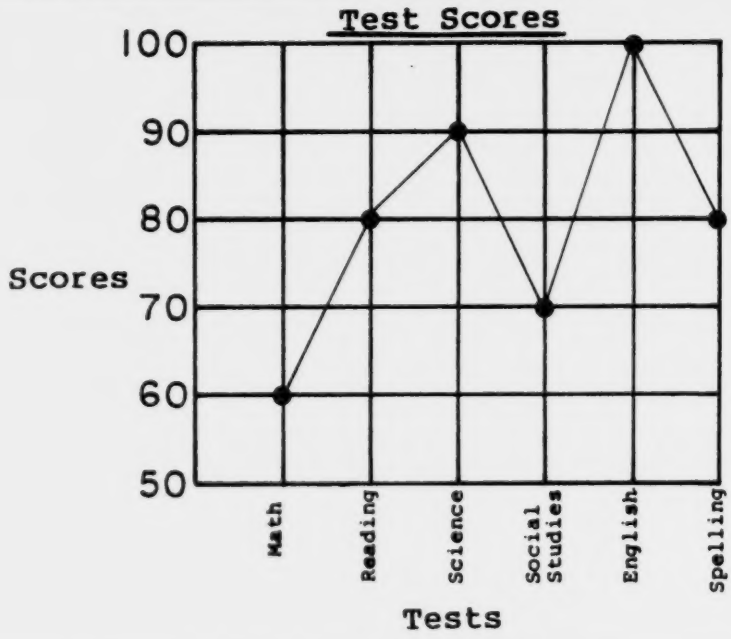
NAME:_____ CLASS:_____ DATE:_____

Construct a line graph for each table of data.

Month	Games Won
Sept.	3
Oct.	5
Nov.	2
Dec.	6



Test	Score
Math	60
Reading	80
Science	90
Social Studies	70
English	100
Spelling	80



Do you remember?

Mary has a snack when she comes home from school. She has a piece of fruit and a drink. She can choose from an apple, a banana, an orange, milk, and juice. How many different arrangements can Mary make? Write a list or make a diagram on a separate piece of paper to show these arrangements.

Milk — apple, banana, orange

Juice — apple, banana, orange

6 arrangements

P.O. 4.13.01.01

NAME:_____ CLASS:_____ DATE:_____

Use the chart to solve each problem.

COST TO OPERATE HOME APPLIANCES	
APPLIANCES	COST PER MONTH
Clock	$ .08
Oven	4.95
Refrigerator	8.18
Water Heater	12.60
Color Television	2.15
Washing Machine	.45
Lights	5.85

1. How much will it cost to run a refrigerator for one month?

It will cost $8.18.

2. What is the cost of operating a water heater, lights, and a refrigerator for one month?

The cost is $26.63.

3. How much more does it cost to run a color television than a washing machine for one month?

It costs $1.70 more.

4. How much more does it cost to use a refrigerator for two months than an oven for two months?

It costs $6.46 more.

5. How much cheaper is it to run a refrigerator than a water heater for one month?

It costs $4.42 less.

6. What will be the monthly cost for operating each appliance above for 1 month?

The cost will be $34.26.

Do you remember?

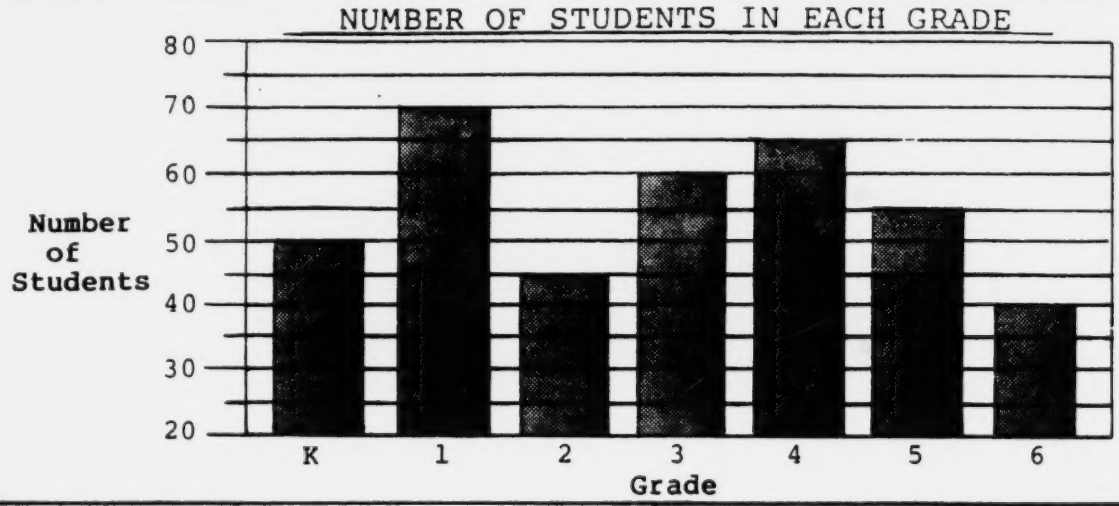
Write the following numerals in increasing order.
5,463, 5,629, 5,099, 5,180

5,099 5,180 5,463 5,629

P.O. 4.13.01.02

NAME:_____ CLASS:_____ DATE:_____

Use the graph to help you solve each problem.



1. How many more students are in grade 1 than in grade 2?

There are 25 more students in grade 1 than grade 2.

2. How many students are in the fifth and sixth grades?

There are 95 students in the fifth and sixth grades.

3. Which two grades have a total of 130 students?

Grades 1 and 3 have a total of 130 students.

4. How many more students are in grade 4 than in grade 6?

There are 25 more students in grade 4 than in grade 6.

5. How many fewer students are in grade 2 than in Kindergarten?

There are 5 fewer students in grade 2 than in kindergarten.

6. How many students are in the entire school?

There are 385 students in the school.

CHALLENGE!

Which 3 grades have a combined total of exactly 175 students?

Grades K, 1, and 5 Grades 1, 2, and 3

Grades K, 3, and 4 Grades 1, 4, and 6

SHARPENING YOUR SKILLS

Units 4, 5, 6

Name: _____ **Class:** _____ **Date:** _____

1. 30 hundreds = ☐ thousand

30	3	300	Not Here
ⓐ	●	ⓒ	ⓓ

2. 5 thousand = ☐ hundreds

50	500	6	Not Here
●	ⓕ	ⓖ	ⓗ

3. Write the following numbers in increasing order.

6,264 6,029 6,150

6,029 6,150 6,264

4. Write the following numbers in decreasing order.

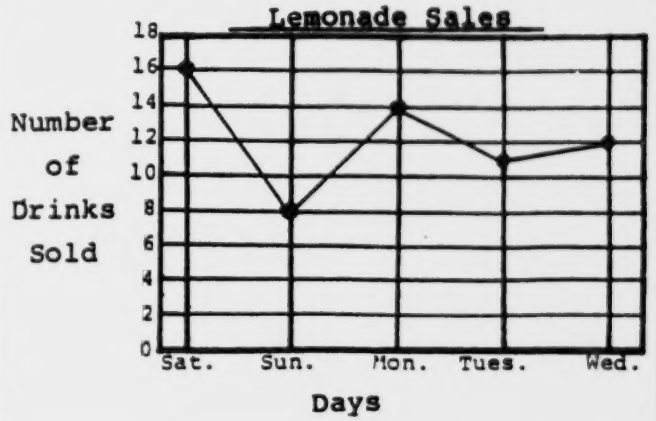
4,988 4,975 5,132

5,132 4,988 4,975

5. Maria counted the number of pennies, nickels, and dimes in her bank. Complete the frequency table below to find out how many of each coin Maria had.

Coin	Tally	Frequency
penny	𝍸 𝍸 𝍸 ||	17
nickel	𝍸 𝍸	10
dime	𝍸 |||	8

Chris and Bobby set up a lemonade stand. They made a graph to show the number of drinks sold each day. Use the graph to answer questions 6 and 7.



6. On which day were the most drinks sold? Sat.

7. How many drinks were sold during the five days? 61

Use the table below to answer questions 8 and 9.

Number of Students in 4th Grade

Class	Boys	Girls
4A	14	18
4B	16	15
4C	12	17

8. Which class has the greatest number of students? 4A

9. Which class has 3 more girls than class 4B? 4A

P.O. 4.01.02.01

NAME:_____ CLASS:_____ DATE:_____

Write each number below in the place value chart. Then use the place value chart to help you complete each sentence.

	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	
36,415		3	6	4	1	5	The 4 in 36,415 has a value of 400. The 6 in 36,415 has a value of 6,000.
45,308		4	5	3	0	8	The 8 in 45,308 has a value of 8. The 4 in 45,308 has a value of 40,000.
27,569		2	7	5	6	9	The 2 in 27,569 has a value of 20,000. The 6 in 27,569 has a value of 60.
612,900	6	1	2	9	0	0	The 1 in 612,900 has a value of 10,000. The 2 in 612,900 has a value of 2,000.
256,013	2	5	6	0	1	3	The 2 in 256,013 has a value of 200,000 The 3 in 256,013 has a value of 3.
703,654	7	0	3	6	5	4	The 6 in 703,654 has a value of 600. The 7 in 703,654 has a value of 700,000.

CHALLENGE! Look at the following numbers.

125,627 (52,148) 341,256

Circle the number in which the 5 has the greatest value. Write its value. 50,000

P.O. 4.01.02.02

NAME: _____ CLASS: _____ DATE: _____

Write each number in expanded notation.

34,781 = 3 ten thousands + 4 thousands + 7 hundreds + 8 tens + 1 one.

512,348 = 5 hundred thousands + 1 ten thousand + 2 thousands + 3 hundreds + 4 tens + 8 ones.

679,542 = 6 hundred thousands + 7 ten thousands + 9 thousands + 5 hundreds + 4 tens + 2 ones.

89,012 = 8 ten thousands + 9 thousands + 0 hundreds + 1 ten + 2 ones.

80,437 = 8 ten thousands + 0 thousands + 4 hundreds + 3 tens + 7 ones.

234,781 = 200,000 + 30,000 + 4,000 + 700 + 80 + 1.

347,182 = 300,000 + 40,000 + 7,000 + 100 + 80 + 2.

548,963 = 500,000 + 40,000 + 8,000 + 900 + 60 + 3.

88,421 = 80,000 + 8,000 + 400 + 20 + 1.

- 88 -

NAME: _____ CLASS: _____ DATE: _____

Write each expanded number in standard form.

7 hundred thousands + 6 ten thousands + 2 thousands + 4 hundreds + 2 tens + 1 one = 762,421.

8 hundred thousands + 5 ten thousands + 1 thousand + 3 hundreds + 8 tens + 9 ones = 851,389.

2 ten thousands + 9 thousands + 8 hundreds + 6 tens = 29,860.

3 ten thousands + 2 thousands + 1 hundred + 2 tens + 4 ones = 32,124.

1 ten thousand + 5 hundreds + 8 tens + 7 ones = 10,587.

20,000 + 7,000 + 700 + 60 + 4 = 27,764.

10,000 + 6,000 + 900 + 80 + 1 = 16,981.

100,000 + 30,000 + 5,000 + 200 + 70 + 5 = 135,275.

200,000 + 40,000 + 3,000 + 70 + 5 = 243,075.

500,000 + 1,000 + 200 + 30 + 6 = 501,236.

P.O. 4.01.03.01-.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Round to the nearest thousand.

5,611 rounded to the nearest thousand is 6,000.
6,017 rounded to the nearest thousand is 6,000.
3,907 rounded to the nearest thousand is 4,000.
17,804 rounded to the nearest thousand is 18,000.
26,710 rounded to the nearest thousand is 27,000.
44,500 rounded to the nearest thousand is 45,000.

Round to the nearest hundred.

4,126 rounded to the nearest hundred is 4,100.
6,791 rounded to the nearest hundred is 6,800.
7,162 rounded to the nearest hundred is 7,200.
72,019 rounded to the nearest hundred is 72,000.
61,903 rounded to the nearest hundred is 61,900.
34,657 rounded to the nearest hundred is 34,700.

Solve these problems.

Mark delivered 1,464 newspapers last month. Sam delivered 1,672 newspapers. Who delivered closer to 2000 newspapers for the month?

Sam

Nadine traveled 2,640 miles to see her grandmother. Marcia traveled 2,688 miles. Who traveled closer to 2,700 miles?

Marcia

Do you remember?

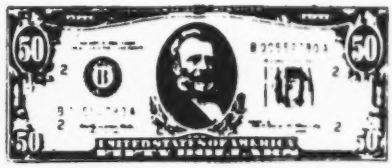
$36 \div 6 = \boxed{6}$	$42 \div 7 = \boxed{6}$	$48 \div 6 = \boxed{8}$	$28 \div 7 = \boxed{4}$
$6\overline{)18}$ 3	$7\overline{)21}$ 3	$6\overline{)30}$ 5	$7\overline{)35}$ 5

P.O. 4.10.01.01

NAME: _____ CLASS: _____ DATE: _____

Cut along the dotted lines. On another piece of paper, paste all the amounts having a value of ten dollars in a row, all the amounts having a value of twenty dollars in a second row, and all the amounts having a value of fifty dollars in a third row.

$20.00



$50.00

$10.00

P.O. 4.10.01.02

NAME: _____ CLASS: _____ DATE: _____

Solve each problem. There may be more than one solution to each problem.

I cost more than $5.00 but less than $30.00. You can pay for me by using two bills. Each bill is worth $10.00. How much do I cost?

$20.00

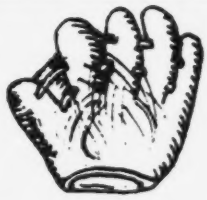
I cost less than $25.00 but more than $10.00. You can pay for me by using six bills. Five of the bills are equal in value. How much do I cost?

$15.00

Which bills will you use?

5 one dollar bills, 1 ten dollar bill

I cost more than $25.00 but less than $50.00. You can pay for me by using four bills. Each bill has the same value. How much do I cost?



$40.00

How will you pay for me?

4 ten dollar bills

I cost more than $20.00 but less than $50.00. I was paid for with three bills. Each bill has a different value. A one dollar bill was not used. How much do I cost?

$35.00

What are the three bills?

five dollar bill, ten dollar bill, twenty dollar bill

CHALLENGE!

1. What two numbers have a product of 20 and a sum of 9? 5 and 4

2. What two numbers have a product of 28 and a sum of 11? 7 and 4

SHARPENING YOUR SKILLS

Units 7, 8, 9

Name: _____ **Class:** _____ **Date:** _____

1. 40,000 + 8,000 + 700 + 10 + 6 = ☐

   ⓐ 408,716 ⓒ 48,706
   ● 48,716 ⓓ 487,106

2. 100,000 + 60,000 + 800 + 20 + 9 = ☐

   ● 160,829 ⓖ 16,829
   ⓕ 106,809 ⓗ 168,209

3. Write 48,166 in expanded notation.

   40,000+8,000+100+60+6

4. Write 135,200 in expanded notation.

   100,000+30,000+5,000+200

5. 6,736 rounded to the nearest thousand is 7,000.

6. 21,594 rounded to the nearest thousand is 22,000.

7. What is 5,872 rounded to the nearest hundred?

   ⓐ 5,800 ⓒ 6,000
   ● 5,900 ⓓ 5,000

8. What is 16,274 rounded to the nearest hundred?

   ⓔ 16,000 ⓖ 16,200
   ● 16,300 ⓗ 15,000

9. I have two bills that total $10.00. What are the two bills?

   2 five dollar bills

10. I have three bills that total $20.00. What are the three bills?

    2 five dollar bills and 1 ten dollar bill

11. Which of the following is equivalent to fifty dollars?

    ⓐ 1 twenty dollar bill and 1 ten dollar bill
    ⓑ 3 five dollar bills
    ● 2 twenty dollar bills and 1 ten dollar bill
    ⓓ 3 ten dollar bills

P.O. 4.14.03.01-.02

NAME: _____ CLASS: _____ DATE: _____

Solve and check.

1.

$$\begin{array}{r} 23 \\ +\ 14 \\ \hline 37 \end{array}$$

check

$$\begin{array}{r} 14 \\ +23 \\ \hline 37 \end{array}$$

2.

$$\begin{array}{r} 66 \\ +\ 31 \\ \hline 97 \end{array}$$

check

$$\begin{array}{r} 31 \\ +66 \\ \hline 97 \end{array}$$

3. $54 + 25 = \boxed{79}$

$$\begin{array}{r} 54 \\ +25 \\ \hline 79 \end{array}$$

check

$$\begin{array}{r} 25 \\ +54 \\ \hline 79 \end{array}$$

4.

$$\begin{array}{r} 127 \\ +\ 131 \\ \hline 258 \end{array}$$

check

$$\begin{array}{r} 131 \\ +127 \\ \hline 258 \end{array}$$

5.

$$\begin{array}{r} 466 \\ +\ 223 \\ \hline 689 \end{array}$$

check

$$\begin{array}{r} 223 \\ +466 \\ \hline 689 \end{array}$$

6.

$$\begin{array}{r} 151 \\ +\ 427 \\ \hline 578 \end{array}$$

check

$$\begin{array}{r} 427 \\ +151 \\ \hline 578 \end{array}$$

7.

$$\begin{array}{r} 38 \\ +\ 17 \\ \hline 55 \end{array}$$

check

$$\begin{array}{r} 17 \\ +38 \\ \hline 55 \end{array}$$

8.

$$\begin{array}{r} 49 \\ +\ 65 \\ \hline 114 \end{array}$$

check

$$\begin{array}{r} 65 \\ +49 \\ \hline 114 \end{array}$$

9.

$$\begin{array}{r} 58 \\ +\ 39 \\ \hline 97 \end{array}$$

check

$$\begin{array}{r} 39 \\ +58 \\ \hline 97 \end{array}$$

10.

$$\begin{array}{r} 425 \\ +\ 396 \\ \hline 821 \end{array}$$

check

$$\begin{array}{r} 396 \\ +425 \\ \hline 821 \end{array}$$

11.

$$\begin{array}{r} 317 \\ +\ 475 \\ \hline 792 \end{array}$$

check

$$\begin{array}{r} 475 \\ +317 \\ \hline 792 \end{array}$$

12. $663 + 294 = \boxed{957}$

$$\begin{array}{r} 663 \\ +294 \\ \hline 957 \end{array}$$

check

$$\begin{array}{r} 294 \\ +663 \\ \hline 957 \end{array}$$

Do you remember?

$3 \times 8 = \boxed{24}$ $5 \times 9 = \boxed{45}$ $7 \times 8 = \boxed{56}$

$$\begin{array}{r} 9 \\ \times\ 2 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 8 \\ \times\ 6 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 9 \\ \times\ 7 \\ \hline 63 \end{array}$$

$$\begin{array}{r} 8 \\ \times\ 5 \\ \hline 40 \end{array}$$

P.O. 4.02.01.01&.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Round each number to its largest place.

5,725 6,000	7,182 7,000	611 600	849 800
3,169 3,000	2,749 3,000	708 700	499 500

Round each addend to the largest place and find the estimated sum.

① 4,321 rounded to the nearest thousand is 4,000
+ 1,892 rounded to the nearest thousand is 2,000
estimated sum 6,000

② 3,749 rounded to the nearest thousand is 4,000
912 rounded to the nearest thousand is 1,000
+ 6,714 rounded to the nearest thousand is 7,000
estimated sum 12,000

③ 291 rounded to the nearest hundred is 300
+ 792 rounded to the nearest hundred is 800
estimated sum 1,100

④ 5,368 rounded to the nearest thousand is 5,000
2,981 rounded to the nearest thousand is 3,000
+ 1,215 rounded to the nearest thousand is 1,000
estimated sum 9,000

Solve.

① Matt's Market sold 1,865 cans of apple juice, 2,440 cans of grape juice, and 619 cans of pineapple juice. About how many cans of juice were sold?

5,000 cans

② A jet flew 2,579 miles. Then it refueled and flew 4,790 miles. About how many miles did the jet fly?

8,000 miles

P.O. 4.02.01.02&.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Find the sums. Check.

1.
$$\begin{array}{r} 2{,}468 \\ 1{,}691 \\ 124 \\ +\ 416 \\ \hline 4{,}699 \end{array}$$

2.
$$\begin{array}{r} 3{,}745 \\ 1{,}379 \\ +\ 2{,}101 \\ \hline 7{,}225 \end{array}$$

3.
$$\begin{array}{r} \$10.08 \\ 6.29 \\ 43.01 \\ +\ .62 \\ \hline \$60.00 \end{array}$$

4. $517 + 268 + 1{,}403 + 3{,}260 =$ 5,448

5. $2{,}403 + 1{,}691 + 3{,}500 + 29 =$ 7,623

Solve and check.

① 1,568 circus tickets were sold last weekend. This weekend 2,147 tickets were sold. How many tickets were sold both weekends?

Solve

3,715 tickets were sold.

Check

② A token clerk sold 1,571 tokens on Monday, 991 tokens on Tuesday, 2,046 tokens on Wednesday, and 1,740 tokens on Thursday. How many tokens were sold during the four days?

Solve

6,348 tokens were sold.

Check

CHALLENGE!

Ms. Sanders bought a dress for $66.92, a top for $21.17, and a hot dog for $1.25. She left her house with $100.00. How much money did she have when she came home?

Check

$10.66

P.O. 4.14.04.01-.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

A. Circle the examples which need regrouping (exchange) to find the difference.

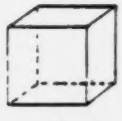
1.	2.	3.	4.	5.
439 − 12	650 − 139	824 − 445	921 − 160	67 − 46

B. Solve and check each example.

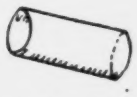
1. 237 − 114 = 123 check: 123 + 114 = 237	2. 503 − 121 = 382 check: 382 + 121 = 503	3. 88 − 49 = 39 check: 39 + 49 = 88
4. 87 − 64 = 23 check: 23 + 64 = 87	5. 795 − 678 = 117 check: 117 + 678 = 795	6. 364 − 142 = 222 check: 222 + 142 = 364
7. 481 − 246 = 235 check: 235 + 246 = 481	8. 79 − 43 = 36 check: 36 + 43 = 79	9. 835 − 161 = 674 835 − 161 = 674 check: 674 + 161 = 835
10. 904 − 403 = 501 check: 501 + 403 = 904	11. 63 − 48 = 15 63 − 48 = 15 check: 15 + 48 = 63	12. 481 − 185 = 296 check: 296 + 185 = 481

Do you remember? Write the name of each figure.

cone



cube



cylinder

P.O. 4.03.01.01

NAME: _____ CLASS: _____ DATE: _____

Estimate each difference by rounding to the nearest thousand.

① 6,720 rounded to the nearest thousand is 7000
-5,479 rounded to the nearest thousand is 5000
estimated difference 2000

② 2,610 rounded to the nearest thousand is 3000
-1,216 rounded to the nearest thousand is 1000
estimated difference 2000

③ 7,612 rounded to the nearest thousand is 8000
-5,075 rounded to the nearest thousand is 5000
estimated difference 3000

④ During a twelve hour period, 8,216 cars traveled over the Brookyn Bridge. 3,997 cars traveled over the Williamsburg Bridge. Approximately, how many more cars traveled over the Brooklyn Bridge than the Williamsburg Bridge?

estimated difference 4000

⑤ On the Fourth of July, 9,709 people visited the observation deck of the World Trade Center. 7,812 people visited the observation deck of the Empire State Building. Approximately how many fewer people visited the Empire State Building than the World Trade Center?

estimated difference 2000

Do you remember?

Write the standard form of each expanded number.

20,000 + 4,000 + 600 + 30 + 2 = 24632

80,000 + 3,000 + 20 + 6 = 83026

300,000 + 20,000 + 1,000 + 500 + 30 + 3 = 321533

P.O. 4.03.01.02&.05

NAME: _____ CLASS: _____ DATE: _____

Solve and check.

① 3,745 − 1,620 = 2,125 check: 2,125 + 1,620 = 3,745	② 4,621 − 1,321 = 3,300 check: 3,300 + 1,321 = 4,621
③ 6,984 − 2,473 = 4,511 check: 4,511 + 2,473 = 6,984	④ $86.15 − 14.03 = $ 72.12 check: $72.12 + 14.03 = $86.15
⑤ 9,836 − 7,214 = 2,622 check: 2,622 + 7,214 = 9,836	⑥ 2,844 − 1,234 = 1,610 check: 1,610 + 1,234 = 2,844
⑦ $66.39 − 55.24 = $11.15 check: $11.15 + 55.24 = $66.39	⑧ 5,987 − 2,451 = 3,536 check: 3,536 + 2,451 = 5,987

⑨ James earned $27.68 last week and $21.54 this week. How much more did he earn last week than this week?

solve check

He earned $6.14 more last week.

⑩ Betty wants to buy a bicycle that costs $35.99. She has saved $12.68 so far. How much money does she still need to buy the bicycle?

solve check

She still needs $23.31.

P.O. 4.03.01.03.&.05

NAME: _____ CLASS: _____ DATE: _____

Solve and check.

① $43.15 − 18.06 = $25.09 check: $25.09 + 18.06 = $43.15	② 2,367 − 1,198 = 1,169 check: 1,169 + 1,198 = 2,367
③ 8,642 − 7,218 = 1,424 check: 1,424 + 7,218 = 8,642	④ $28.95 − 14.89 = $14.06 check: $14.06 + 14.89 = $28.95
⑤ 3,564 − 1,289 = 2,275 check: 2,275 + 1,289 = 3,564	⑥ 7,403 − 2,182 = 5,221 check: 5,221 + 2,182 = 7,403
⑦ $86.29 − 46.78 = $39.51 check: $39.51 + 46.78 = $86.29	⑧ $77.36 − 18.49 = $58.87 check: $58.87 + 18.49 = $77.36

⑨ The coat Mark would like to buy costs $45.50. He has $22.98. How much more does he need to buy the coat?

solve check

He needs $22.52.

⑩ The Baker family drove 1,205 miles on their vacation. The Williams family drove 2,571 miles on their vacation. How many more miles did the Williams family drive?

solve check

The Williams family drove 1,366 more miles.

P.O. 4.03.01.04-.05

NAME: _____ CLASS: _____ DATE: _____

Solve and check.

①	300 -143 157	check 157 +143 300
②	$2.00 - 1.99 $ .01	check $ .01 +1.99 $2.00
③	700 -248 452	check 452 +248 700
④	900 -497 403	check 403 +497 900
⑤	$20.00 - 16.35 $3.65	check $ 3.65 + 16.35 $20.00
⑥	8,000 -2,474 5,526	check 5,526 +2,474 8,000
⑦	5,000 -2,158 2,842	check 2,842 +2,158 5,000
⑧	$30.00 - 19.75 $10.25	check $10.25 +19.75 $30.00

⑨ Bobby bought a book for $3.95. He gave the clerk $5.00. How much change will he receive?

solve check

He will receive $1.05.

⑩ Ms. Gomez bought a jacket marked $20.00. The clerk gave her a discount of $3.95. How much did Ms. Gomez pay for the jacket?

solve check

Ms. Gomez paid $16.05.

SHARPENING YOUR SKILLS

Units 10, 11, 12, 13

Name: _____ **Class:** _____ **Date:** _____

1. Add.

$$\begin{array}{r} 532 \\ +367 \end{array}$$

(a) 889 (c) 235
● 899 (d) Not Here

2. Find the sum.

$$\begin{array}{r} 26 \\ +18 \end{array}$$

● 44 (g) 314
(f) 12 (h) Not Here

3. Add.

$$\begin{array}{r} 525 \\ +115 \end{array}$$

(a) 630 (c) 410
● 640 (d) Not Here

4. Estimate the sum.

$$\begin{array}{r} 2{,}819 \\ +4{,}112 \end{array}$$

(e) 2,000 ● 7,000
(f) 5,000 (h) 8,000

5. 3,213 + 586 + 37 = ☐

(a) 3,826 (c) 3,726
(b) 3,236 ● 3,836

6. On Saturday 365 people attended the school play. On Sunday there were 218. How many people were there on both days?

583 people

7. Fill in each ☐.

$$\begin{array}{r} 6\,\boxed{8}\,5 \\ -\boxed{2}\,3\,1 \\ \hline 4\,5\,\boxed{4} \end{array}$$

8. Subtract and check.

$$\begin{array}{r} 724 \\ -317 \\ \hline 407 \end{array} \qquad \begin{array}{r} 407 \\ +317 \\ \hline 724 \end{array}$$

9. Find the difference and check.

$$\begin{array}{r} 83 \\ -26 \\ \hline 57 \end{array} \qquad \begin{array}{r} 57 \\ +26 \\ \hline 83 \end{array}$$

10. Estimate the difference.

$$\begin{array}{r} 8{,}935 \\ -4{,}224 \end{array}$$

(e) 3,000 (g) 12,000
● 5,000 (h) Not Here

11. Find the difference and check.

$$\begin{array}{r} 8{,}000 \\ -3{,}726 \\ \hline 4{,}274 \end{array} \qquad \begin{array}{r} 4{,}274 \\ +3{,}726 \\ \hline 8{,}000 \end{array}$$

12. 850 tickets were printed for the concert. If 625 were sold, how many tickets were not sold?

225 tickets

P.O. 4.06.01.01

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Write two addition sentences for each picture to show how many parts are shaded in all.

$\frac{2}{8} + \frac{4}{8} = \frac{6}{8}$ = = $\frac{4}{8} + \frac{2}{8} = \frac{6}{8}$

$\frac{3}{6} + \frac{1}{6} = \frac{4}{6}$ $\frac{1}{6} + \frac{3}{6} = \frac{4}{6}$

$\frac{3}{4} + \frac{1}{4} = \frac{4}{4}$ $\frac{1}{4} + \frac{3}{4} = \frac{4}{4}$

Find the sum.

$\frac{5}{6}$	$\frac{3}{8}$	$\frac{1}{3}$	$\frac{5}{9}$	$\frac{1}{12}$	$\frac{2}{11}$
$+\frac{1}{6}$	$+\frac{4}{8}$	$+\frac{1}{3}$	$+\frac{2}{9}$	$+\frac{7}{12}$	$+\frac{5}{11}$
$\frac{6}{6}=1$	$\frac{7}{8}$	$\frac{2}{3}$	$\frac{7}{9}$	$\frac{8}{12}$	$\frac{7}{11}$

$\frac{4}{5} + \frac{1}{5} = \frac{5}{5}=1$ $\frac{4}{8} + \frac{4}{8} = \frac{8}{8}=1$ $\frac{1}{6} + \frac{1}{6} = \frac{2}{6}$

$\frac{4}{12} + \frac{3}{12} = \frac{7}{12}$ $\frac{6}{10} + \frac{2}{10} = \frac{8}{10}$ $\frac{3}{4} + \frac{0}{4} = \frac{3}{4}$

Do you remember?

3,667 rounded to the nearest thousand is 4000

7,198 rounded to the nearest thousand is 7000

32,443 rounded to the nearest thousand is 32,000

P.O. 4.06.01.02

NAME: _____ CLASS: _____ DATE: _____

Play Fraction Subtraction to solve the puzzle. Solve each fraction example. Write the letter for each fractional difference on the lines provided.

What did the inspector call the case when Fiddle II was missing?

I.

II.

III.

The RIDDLE $\frac{6}{7}\ \frac{3}{10}\ \frac{2}{8}\ \frac{2}{8}\ \frac{1}{6}\ \frac{1}{2}$ of the MIDDLE $\frac{2}{9}\ \frac{3}{10}\ \frac{2}{8}\ \frac{2}{8}\ \frac{1}{6}\ \frac{1}{2}$ FIDDLE! $\frac{2}{4}\ \frac{3}{10}\ \frac{2}{8}\ \frac{2}{8}\ \frac{1}{6}\ \frac{1}{2}$

$\frac{5}{8} - \frac{3}{8} = \boxed{\frac{2}{8}}$ D

$\frac{6}{6} - \frac{5}{6} = \boxed{\frac{1}{6}}$ L

$\frac{9}{10} - \frac{6}{10} = \boxed{\frac{3}{10}}$ I

$\frac{2}{2} - \frac{1}{2} = \boxed{\frac{1}{2}}$ E

$\frac{4}{9} - \frac{2}{9} = \boxed{\frac{2}{9}}$ M

$\frac{7}{7} - \frac{1}{7} = \boxed{\frac{6}{7}}$ R

$\frac{3}{4} - \frac{1}{4} = \boxed{\frac{2}{4}}$ F

CHALLENGE!

How many halves are there in 5 wholes? 10 halves

How many thirds are there in 5 wholes? 15 thirds

How many fifths are there in 5 wholes? 25 fifths

P.O. 4.06.01.03

NAME:_____ CLASS:_____ DATE:_____

Read each problem. Write a number sentence to help solve the problem. Check your answers.

① Gordon plants corn in $\frac{3}{8}$ of his garden. He plants cucumbers in $\frac{2}{8}$ of his garden. How much of his garden has he used?

Gordon has used $\frac{5}{8}$ of his garden.

② Howard cut a pizza into 8 equal slices. He ate two slices and Jenny ate one. What fractional part of the pie was eaten?

$\frac{3}{8}$ of the pie was eaten.

③ Paul needed $\frac{3}{4}$ cup of sugar to bake a dozen cookies. He only had $\frac{2}{4}$ cup of sugar in his cupboard. How much more sugar did he need?

Paul needed $\frac{1}{4}$ cup more sugar.

④ Ms. Stone bought $\frac{5}{6}$ yard of material. She used $\frac{1}{6}$ yard to make an apron. How much material did she have left over?

Ms. Stone had $\frac{4}{6}$ yard left over.

CHALLENGE!

Betty was painting ten lamps. She painted three of them blue and four of them red. What fractional part of the ten lamps were still left for Betty to paint?

$\frac{3}{10}$ of the lamps were left to paint.

P.O. 4.11.01.01-.02

NAME: _____ CLASS: _____ DATE: _____

Solve each open number sentence.

$6 + \boxed{9} = 15$	$8 + 6 = \boxed{14}$	$11 - 5 = \boxed{6}$
$7 - 4 = \boxed{3}$	$\boxed{7} - 2 = 5$	$\boxed{4} - 3 = 1$
$\boxed{4} + 6 = 10$	$10 - \boxed{1} = 9$	$6 + \boxed{6} = 12$

$27 + n = 58$

$n = 31$

check: $27 + 31 = 58$ $\quad 58 - 27 = 31$ $\quad 58 - 31 = 27$

$\boxed{n} + 48 = 117$

$\boxed{n} = 69$

check: $117 - 48 = 69$ $\quad 117 - 69 = 48$ $\quad 69 + 48 = 117$

$62 - \boxed{n} = 28$

$\boxed{n} = 34$

check: $62 - 34 = 28$ $\quad 28 + 34 = 62$ $\quad 62 - 28 = 34$

$\boxed{n} - 42 = 53$

$\boxed{n} = 95$

check: $95 - 42 = 53$ $\quad 95 - 53 = 42$ $\quad 53 + 42 = 95$

$\boxed{n} - 39 = 59$

$\boxed{n} = 98$

check: $59 + 39 = 98$ $\quad 98 - 39 = 59$ $\quad 98 - 59 = 39$

$146 + y = 258$

$y = 112$

check: $258 - 146 = 112$ $\quad 146 + 112 = 258$ $\quad 258 - 112 = 146$

P.O. 4.11.01.03

NAME:_____ CLASS:_____ DATE:_____

Write and solve an open number sentence to find the missing number in each table.

□	△
0	3
3	6
6	9
9	12
12	15

12+3=15

□	△
2	4
3	6
4	8
5	10
6	12

6x2=12

□	△
10	6
8	4
6	2
4	0

4-4=0

□	△
12	6
8	4
4	2
2	1

2÷2=1

Do you remember?

Ted has 2 twenty dollar bills and 1 ten dollar bill. How much money does Ted have?

$50.00

I have three bills that total $20.00. Two of the bills have the same value. What are the bills?

ten five five

40

P.O. 4.13.02.01

NAME:_____ CLASS:_____ DATE:_____

Write and solve a number sentence for each problem.

1. Freddie's fantastic donut machine makes 9 donuts in one minute. How many donuts can it make in 8 minutes? 8 x 9 = 72 donuts	2. Jerry picked 13 kg of apples at the class picnic. Joey picked 19 kg of apples. How many kilograms of apples did they pick in all? 13 kg + 19 kg = 32 kg
3. Nancy had 65¢. She found a dime. How much money did she have then? 65¢ + 10¢ = 75¢	4. Ms. Green drove 145 miles last week and 98 miles this week. How many miles did she drive in all? 145 mi + 98 mi = 243 mi
5. Sue can walk 30 blocks in an hour. Pete can walk 20 blocks in an hour. How many more blocks can Sue walk in one hour than Pete? 30 - 20 = 10 blocks	6. Janice has 45 pennies. If she makes stacks of 5 pennies each, how many stacks will she have? 45 ÷ 5 = 9 stacks

Do you remember?

	check		check		check
394 + 142 536	142 +394 536	672 + 298 970	298 +672 970	265 + 745 1,010	745 +265 1,010

P.O. 4.13.02.02

NAME: _____ CLASS: _____ DATE: _____

Write and solve the number sentences needed for each problem.

Michael bought white pigeons in March, brown pigeons in April, and gray pigeons in May. Here are his coops.

1. How many more pigeons did Michael buy in March and April than he bought in May?

   Think: Step 1 29+17=46

   Step 2 46-34=12

   Answer: 12

2. Michael wants to have 100 pigeons by the end of June. How many more must he buy?

   Think: Step 1 17+29+34=80

   Step 2 100-80=20

   Answer: 20

3. If Michael trades all his white pigeons for 11 more brown ones, how many browns and grays will he have in all?

   Think: Step 1 29+11=40

   Step 2 40+34=74

   Answer: 74

4. If Michael buys 13 more gray pigeons and then sells 18 gray pigeons, how many gray pigeons will he have left?

   Think: Step 1 34+13=47

   Step 2 47-18=29

   Answer: 29

CHALLENGE!

Pamela has 7 nickels. She has twice as many dimes as nickels and 4 fewer pennies than dimes. How much money does Pamela have?

Pamela has $1.85.

P.O. 4.13.02.03

NAME:_____ CLASS:_____ DATE:_____

Here are some answers. You will write the problems. Use your imagination. Write one step and two step problems.

1. Answer: 20 pages

Problem: Answers will vary.

2. Answer: $24.00

Problem: Answers will vary.

3. Answer: 58 inches

Problem: Answers will vary.

4. Answer: 40 miles

Problem: Answers will vary.

5. Answer: 75 animals

Problem: Answers will vary.

CHALLENGE!

There are 8 more oranges than bananas.
There are 2 more bananas than apples.
If there are 4 apples, how many bananas and oranges are there?

6 bananas

14 oranges

SHARPENING YOUR SKILLS

Units 14, 15, 16

Name: _____ **Class:** _____ **Date:** _____

1. $\frac{7}{10} - \square = \frac{3}{10}$

● $\frac{4}{10}$ (c) $\frac{3}{10}$

(b) $\frac{10}{10}$ (d) Not Here

2. $\frac{3}{6} + \frac{2}{6} = \square$

(e) $\frac{1}{6}$ (g) $\frac{5}{12}$

● $\frac{5}{6}$ (h) Not Here

3. $17 + A = 41$
$A = \square$

(a) 17 (c) 36

(b) 58 ● 24

4. $32 - \square = 22$

(e) 1 ● 10

(f) 12 (h) 54

5. $228 - Y = 175$
$Y = \square$

(a) 28 (c) 403

(b) 153 ● 53

6.

□	△
20	15
15	10
10	△

Which number sentence could be used to find the number that belongs in the △ ?

(e) 20 - 10 = △

● 10 - 5 = △

(g) 10 + 5 = △

(h) 20 - △ = 10

7. The answer is 44 hot dogs. A problem that will have this answer is: *Answers will vary.*

8. Nina walked $\frac{3}{8}$ mile. Then she walked $\frac{4}{8}$ mile. How far did she walk in all?

$\frac{7}{8}$ mile

9. On Halloween night, Luis started trick or treating with 17 cents. When he finished, he had 91 cents. How much money did he get trick or treating?

74¢

P.O. 4.14.05.01

NAME: _____ CLASS: _____ DATE: _____

Look at the products each player used. Find the factors for each product and place an X or an O on them. Who will be the winner in each game?

Game 1

Player X	Player O
42	27
63	21
32	48

8x7	(6x8)	~~7x9~~
9x6	~~6x7~~	(3x9)
~~4x8~~	7x7	(7x3)

The winner is Player X.

Game 2

Player X	Player O
14	45
48	54
21	24

(5x9)	~~3x7~~	~~6x8~~
(6x9)	~~7x2~~	3x9
(4x6)	4x4	7x4

The winner is Player O.

Game 3

Player X	Player O
40	36
28	72
27	12

~~7x4~~	6x5	(3x4)
3x8	(9x8)	~~8x5~~
(4x9)	~~3x9~~	7x7

The winner is Player O.

Game 4

Player X	Player O
45	14
42	40
24	54

(9x6)	3x7	~~5x9~~
7x7	(7x2)	~~6x7~~
(8x5)	6x6	~~3x8~~

The winner is Player X.

P.O. 4.14.05.02

NAME: _____ CLASS: _____ DATE: _____

Hidden in the puzzle below are 20 groups of numbers that can be used to write division facts. They can be read across or up and down. Find and ring each set.

DIVISION SEARCH

16	63	9	7	6	81	16	3
4	11	72	54	6	9	48	8
4	32	8	4	36	9	4	28
20	27	9	3	21	3	2	64
5	8	7	35	3	3	2	42
4	8	49	7	7	10	14	7
8	6	3	5	45	5	9	6
22	30	5	6	2	2	6	4

Write a division fact and a related multiplication fact for each group of numbers you find.

1.	16÷4=4	4x4=16
2.	63÷9=7	7x9=63
3.	36÷6=6	6x6=36
4.	72÷8=9	9x8=72
5.	81÷9=9	9x9=81
6.	32÷8=4	8x4=32
7.	36÷9=4	9x4=36
8.	27÷9=3	9x3=27
9.	21÷3=7	7x3=21
10.	42÷7=6	6x7=42
11.	49÷7=7	7x7=49
12.	45÷5=9	9x5=45
13.	12÷2=6	6x2=12
14.	30÷5=6	6x5=30
15.	18÷6=3	3x6=18
16.	20÷5=4	4x5=20
17.	10÷5=2	2x5=10
18.	35÷7=5	5x7=35
19.	54÷6=9	9x6=54
20.	4÷2=2	2x2=4

P.O. 4.14.05.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Associative Property of Multiplication - Changing the grouping of the factors does not change the product.

Show another way in which the factors may be grouped.

1. (3 x 5) x 4 = 3x(5x4)
2. (4 x 2) x 6 = 4x(2x6)
3. (1x3)x9 = 1 x (3 x 9)
4. (4 x 2) x 3 = 4x(2x3)
5. (6x2)x2 = 6 x (2 x 2)
6. (8 x 2) x 3 = 8x(2x3)

Solve each number sentence to show that the products will be the same.

1. (2 x 3) x 2 = 2 x (3 x 2)

   6 x 2 = 2 x 6

   12 = 12

2. (4 x 4) x 1 = 4 x (4 x 1)

   16 x 1 = 4x4

   16 = 16

3. (2 x 3) x 3 = 2 x (3 x 3)

   6x3 = 2x9

   18 = 18

4. (3 x 0) x 5 = 3 x (0 x 5)

   0x5 = 3x0

   0 = 0

5. (6 x 1) x 3 = 6 x (1 x 3)

   6x3 = 6x3

   18 = 18

6. (4 x 5) x 2 = 4 x (5 x 2)

   20x2 = 4x10

   40 = 40

Do you remember?

	check		check		check
3,548	2,269	5,607	1,893	$63.14	$44.15
- 1,279	+1,279	- 3,714	+3,714	- 18.99	+18.99
2,269	3,548	1,893	5,607	$44.15	$63.14

P.O. 4.04.01.01

NAME: _____ CLASS: _____ DATE: _____

Play Wheel of Fortune. Solve each multiplication example. Look at the code to find the letter each product represents. Write the letters in the spaces. What is the message?

Y	O	U		A	R	E		A
3 x 11	4 x 12	11 x 11		1 x 12	4 x 11	5 x 12		1 x 12

M	U	L	T	I	P	L	I	C	A	T	I	O	N
6 x 12	11 x 11	7 x 11	6 x 11	2 x 12	5 x 11	7 x 11	2 x 12	1 x 11	1 x 12	6 x 11	2 x 12	4 x 12	3 x 12

W	I	Z	A	R	D
7 x 12	2 x 12	9 x 11	1 x 12	4 x 11	8 x 11

Code

12	96	11	88	60	75	120	22	24	110
A	B	C	D	E	F	G	H	I	J
144	77	72	36	48	55	108	44	132	66
K	L	M	N	O	P	Q	R	S	T
121	0	84	65	33	99				
U	V	W	X	Y	Z				

67

P.O. 4.04.01.02

NAME: _____ CLASS: _____ DATE: _____

Solve each problem.

1. Sonia's dog, Rex, eats 11 pounds of dog food each week. How many pounds of dog food will he eat in 7 weeks? 77 pounds

2. The fourth grade class planted 12 pumpkin seeds in each of 8 pots. How many pumpkin seeds did they plant? 96 seeds

3. Marie's bookcase has 9 shelves. Each shelf has 12 books. How many books are in Marie's bookcase? 108 books

4. There are a dozen eggs in each carton. How many eggs will be in 12 cartons? 144 eggs

5. Bill said, "I'm thinking of a number. It is three times as large as 11. What is my number?" 33

6. Pam planted eight rows of flowers. There were 11 flowers in each row. How many flowers did Pam plant? 88 flowers

7. The baker filled five boxes with twelve donuts in each box. How many donuts did he use? 60 donuts

CHALLENGE!

Anna and Jane played basketball. Together they scored 30 points. If Jane scored 6 more points than Anna, how many points did each girl score?

Anna 12 Jane 18

49

P.O. 4.13.03.01

NAME: _____ CLASS: _____ DATE: _____

Guess and check to solve each problem.

GUESS MY NUMBER

CLUES	POSSIBILITIES
I am between 30 and 38. I am an odd number. My digits are the same. I am the number 33.	

CLUES	POSSIBILITIES
I am a 2-digit number. I am an even number. The sum of my digits is 17. I am the number 98.	

CLUES	POSSIBILITIES
I am greater than 60 but less than 75. I am an even number. The sum of my digits is 10. I am the number 64.	

CLUES	POSSIBILITIES
I am a 2-digit number. I am an odd number. My digits are consecutive. The sum of my digits is 5. I am the number 23.	

CLUES	POSSIBILITIES
I am a 3-digit number. I am an even number. I read the same forward and backward. The sum of my digits is 5. I am the number 212.	

CLUES	POSSIBILITIES
I am a 3-digit number. I am an even number. All three digits are the same. The sum of my digits is 12. I am the number 444.	

CHALLENGE! Jackie ate $\frac{1}{4}$ of the pie. Ted ate $\frac{1}{2}$ of the pie. What part of the pie was eaten?

$\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$

$\frac{3}{4}$ was eaten

HINT: Draw a picture.

P.O. 4.13.03.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Fill in the number needed to solve each addition magic square.

Remember : The sum of the numbers across, down, and diagonally is the same.

6	1	8
7	5	3
2	9	4

9	2	7
4	6	8
5	10	3

8	7	12
13	9	5
6	11	10

Solve.

Jenny has 3 different coins. The total value of the coins is 40¢. What are the coins?

Quarter Dime Nickel

Penny jogged a total of 12 miles on Saturday and Sunday. On Saturday she jogged 2 miles less than on Sunday. How many miles did she jog on Saturday?

5 miles

I am a 2-digit number. I am odd. I am between 60 and 70. The difference between my tens digit and my ones digit is 5.

I am 61.

The sum of 3 consecutive numbers is 18. What are the numbers?

5 6 7

Do you remember?

$$\begin{array}{r} 300 \\ -\ 195 \\ \hline 105 \end{array}$$

check

$$\begin{array}{r} 105 \\ +195 \\ \hline 300 \end{array}$$

$$\begin{array}{r} \$50.00 \\ -\ 28.85 \\ \hline \$21.15 \end{array}$$

check

$$\begin{array}{r} \$21.15 \\ +28.85 \\ \hline \$50.00 \end{array}$$

P.O. 4.13.03.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Fill in the number needed to solve each multiplication magic square.

Remember - In a Multiplication magic square the product of the factors in each row(↔) and each column(↕) must be the same.

2	3	3
3	6	1
3	1	6

12	2	1
1	3	8
2	4	3

4	12	2
6	2	8
4	4	6

What's My Number?

I am less than 7 x 5.
I am greater than 7 x 4.
I am an even number.
The product of my digits is 6.
I am 32.

I am a 2-digit number.
My digits are the same.
I am divisible by 5.
I am 55.

I am between 20 and 30.
I am an odd number.
I can be divided by 3 and by 9.
I am 27.

I am a 2-digit number.
I am odd.
The sum of my digits is 9.
The product of my digits is 20.
I am 45.

I am between 30 and 40.
I am an even number.
I can be divided by 4 and by 9.
I am 36.

SHARPENING YOUR SKILLS

Units 17, 18, 19

Name: _____ **Class:** _____ **Date:** _____

1. $7 \times 6 = \boxed{42}$

2. $4 \times 8 = \boxed{32}$

3. $9 \times 5 = \boxed{45}$

4. $3 \times 11 = \boxed{33}$

5. $8 \times 12 = \boxed{96}$

6. $(3 \times 4) \times 6 = 3 \times (\square \times 6)$

   (a) 3 (c) 6

   ● 4 (d) Not Here

7. $9\overline{)63}$

   (e) 6 (g) 8

   ● 7 (h) Not Here

8. $28 \div 4 = \boxed{7}$

9. $8\overline{)72}$

   (a) 6 (c) 8

   (b) 7 ● Not Here

10. $18 \div 6 = 3$

    Which number sentence could be used to check the division example?

    (e) $9 \times 2 = 18$ (g) $18 \div 2 = 9$

    ● $3 \times 6 = 18$ (h) Not Here

11. $56 \div 8 = \boxed{7}$

12. $54 \div 9 = \boxed{6}$

13. Tammy made 9 stacks of pennies with 11 pennies in each stack. How many pennies does Tammy have in all?

    Tammy has 99 pennies.

14. I am a number between 20 and 30.
    I am an even number.
    My ones digit is greater than my tens digit.
    The product of my digits is 8.

    I am the number 24.

15. I am a number with two digits.
    I am greater than 78.
    I am less than 98.
    The sum of my digits is 14.
    The product of my digits is 45.

    I am the number 95.

P.O. 4.04.02.01-.02

NAME: _____ CLASS: _____ DATE: _____

Complete the examples below.

10 x 3 = 30	10 x 5 = 50	10 x 7 = 70	10 x 2 = 20	10 x 6 = 60	10 x 1 = 10	10 x 9 = 90	10 x 4 = 40

100 x 4 = 400	100 x 6 = 600	100 x 3 = 300	100 x 7 = 700	100 x 9 = 900	100 x 5 = 500	100 x 8 = 800

You can multiply multiples of 10 and 100 if you know your basic facts.

2 x 3 = 6	2 x 30 = 60	2 x 300 = 600

5 x 3 = 15	5 x 30 = 150	5 x 300 = 1500
4 x 5 = 20	4 x 50 = 200	4 x 500 = 2000
3 x 8 = 24	3 x 80 = 240	3 x 800 = 2400
9 x 6 = 54	9 x 60 = 540	9 x 600 = 5400
7 x 4 = 28	7 x 40 = 280	7 x 400 = 2800

600 x 6 = 3,600	70 x 4 = 280	80 x 6 = 480	500 x 7 = 3,500	900 x 2 = 1,800	40 x 8 = 320

P.O. 4.04.02.03

NAME: _____ CLASS: _____ DATE: _____

Use the distributive property of multiplication to solve each example.

5 x 17 = 5 x (10 + 7) = (5 x 10) + (5 x 7) = 50 + 35 = 85	3 x 25 = 3 x (20 + 5) = (3 x 20) + (3 x 5) = 60 + 15 = 75
2 x 19 = 2 x (10 + 9) = (2 x 10) + (2 x 9) = 20 + 18 = 38	6 x 15 = 6 x (10 + 5) = (6 x 10) + (6 x 5) = 60 + 30 = 90
4 x 22 = 4 x (20 + 2) = (4 x 20) + (4 x 2) = 80 + 8 = 88	7 x 18 = 7 x (10 + 8) = (7 x 10) + (7 x 8) = 70 + 56 = 126

CHALLENGE!

3 x 146 =

3 x (100 + 40 + 6) =

(3 x 100) + (3 x 40) + (3 x 6) =

300 + 120 + 18 = 438

P.O. 4.04.02.04-.05

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Complete each example. Did you regroup? Circle yes or no.

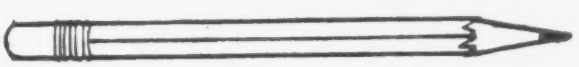
124 x 2 248 yes (no)	23 x 6 138 (yes) no	424 x 6 2,544 (yes) no	32 x 3 96 yes (no)	135 x 5 675 (yes) no

Complete the examples below.

42 x 9 378	630 x 5 3,150	27 x 6 162	34 x 8 272	226 x 3 678
328 x 2 656	465 x 3 1,395	814 x 2 1,628	726 x 3 2,178	138 x 5 690
743 x 5 3,715	801 x 9 7,209	39 x 2 78	75 x 8 600	211 x 6 1,266

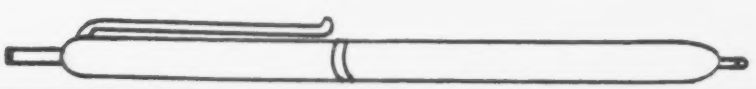
Do you remember?

Measure each item below to the nearest $\frac{1}{4}$ inch.



$3\frac{1}{4}$ inches

$5\frac{3}{4}$ inches



$4\frac{1}{4}$ inches

P.O. 4.04.02.06

NAME:_____ CLASS:_____ DATE:_____

Solve the word problems below.

Students at a school in Albany, New York performed in a rock concert to raise money for starving people in Africa. If 613 families each bought 3 tickets, how many tickets were sold for the concert?	**solve** 1,839 tickets
An apple orchard in New Paltz, New York sold 274 baskets of apples. Each basket had 9 apples. How many apples were sold in all?	**solve** 2,466 apples
One day 829 cars arrived with skiers in Lake Placid, New York. Each car carried 4 skiers. How many people were on the ski slopes that day?	**solve** 3,316 people
Pat's class of 34 students picked strawberries at a farm in Riverhead, Long Island. If each student picked 3 quarts of strawberries, how many quarts were picked by the class?	**solve** 102 quarts

CHALLENGE!

The 4th grade students from a school in the Bronx visited the N.Y. Aquarium in Coney Island.
5 classes, each with 32 students, went on the trip.
The trip cost $3 per student.
How many students went to the N.Y. Aquarium? 160
How much did the trip cost in all? $480

P.O. 4.05.01.01

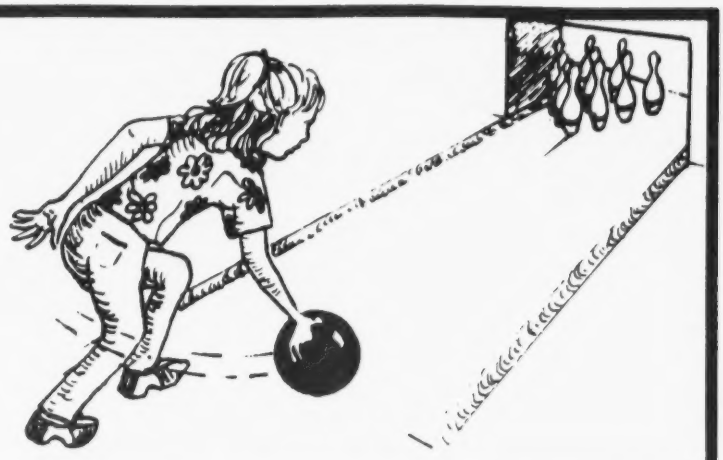
NAME: _____ CLASS: _____ DATE: _____

Find each quotient and check.

$1\overline{)10}$ check: $10 \times 1 = 10$

$\frac{10}{1} = 10$ check: $10 \times 1 = 10$

$10 \div 1 = 10$ check: $10 \times 1 = 10$



Remember: When a number is divided by 1, the quotient is the same as that number.

1. $1\overline{)8}$ check: $8 \times 1 = 8$

2. $1\overline{)12}$ check: $12 \times 1 = 12$

3. $1\overline{)15}$ check: $15 \times 1 = 15$

4. $1\overline{)9}$ check: $9 \times 1 = 9$

5. $7 \div 1 = \boxed{7}$ check: $7 \times 1 = 7$

6. $11 \div 1 = \boxed{11}$ check: $11 \times 1 = 11$

7. $5 \div 1 = \boxed{5}$ check: $5 \times 1 = 5$

8. $14 \div 1 = \boxed{14}$ check: $14 \times 1 = 14$

9. $\frac{19}{1} = \boxed{19}$ check: $19 \times 1 = 19$

10. $\frac{35}{1} = \boxed{35}$ check: $35 \times 1 = 35$

Do you remember?

10 hundreds = 1 thousand

30 hundreds = 3 thousand

90 hundreds = 9 thousand

4 thousand = 40 hundreds

1 thousand = 10 hundreds

7 thousand = 70 hundreds

P.O. 4.05.01.02 - .03

NAME: _____ CLASS: _____ DATE: _____

Solve the examples where division is possible. Place an X on the examples where division is not possible.

Dividing by 0

$0 \overline{)8}$ $\quad 8 \div 0 = \square$

We cannot divide by 0.

Dividing into 0

$12 \overline{)0}$ (0) $\quad 0 \div 12 = 0$

The quotient is always 0.

1. $0 \overline{)16}$
2. $10 \overline{)0}$ (0)
3. $0 \div 26 = \boxed{0}$
4. $0 \overline{)1}$
5. $0 \div 13 = \boxed{0}$
6. $0 \overline{)25}$
7. $0 \div 17 = \boxed{0}$
8. $49 \overline{)0}$ (0)
9. $0 \overline{)32}$
10. $21 \overline{)0}$ (0)
11. $21 \div 0 = \square$
12. $15 \overline{)0}$ (0)
13. $130 \overline{)0}$ (0)
14. $0 \overline{)240}$
15. $0 \div 315 = \boxed{0}$

CHALLENGE!

Carol

Bob

Alice

Alice, Bob, and Carol live on the same block. Bob lives next door to Alice. Alice does not live next door to Carol. Carol does not live in the house on the right. Write each person's name on the line below his/her house.

SHARPENING YOUR SKILLS

Units 20, 21

Name: _____ **Class:** _____ **Date:** _____

1. $7 \times 10 = \square$

   (a) 7 (c) 700
   ● 70 (d) Not Here

2. $\square \times 100 = 300$

   (e) 30 (g) 200
   (f) 10 ● Not Here

3. $5 \times 50 = \square$

   (a) 25 ● 250
   (b) 2,500 (d) Not Here

4. $\square \times 300 = 1{,}200$

   (e) 3 (g) 40
   ● 4 (h) Not Here

5. $6 \times 42 = 6 \times (\square + 2)$

   (a) 42 (c) 4
   ● 40 (d) Not Here

6. Complete the following:

   $3 \times 17 = 3 \times (10 + 7)$
   $= (3 \times \underline{10}) + (3 \times \underline{7})$
   $= \underline{30} + \underline{21}$
   $= \underline{51}$

7. $\begin{array}{r} 24 \\ \times\ 2 \\ \hline \end{array}$

   (e) 28 ● 48
   (f) 42 (h) Not Here

8. Multiply.

   $\begin{array}{r} 321 \\ \times\ 3 \\ \hline 963 \end{array}$

9. Find the product.

   $\begin{array}{r} 27 \\ \times\ 3 \\ \hline 81 \end{array}$

10. Multiply.

    $\begin{array}{r} 426 \\ \times\ 5 \\ \hline 2{,}130 \end{array}$

11. $6 \div \square = 6$

    (a) 6 (c) 0
    ● 1 (d) Not Here

12. Which example cannot be solved?

    (e) $0 \div 4 = \square$ (g) $0 \div 9 = \square$
    ● $0\overline{)5}$ (h) $6\overline{)0}$

13. On Friday 245 people borrowed books from the library. On Saturday 3 times as many people borrowed books. How many people borrowed books on Saturday?

    735 people

P.O. 4.05.02.01-.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Solve.

$4\overline{)21}$ = 5 R1	$6\overline{)19}$ = 3R1	$5\overline{)18}$ = 3R3	$6\overline{)32}$ = 5R2
$5\overline{)42}$ = 8R2	$7\overline{)50}$ = 7R1	$8\overline{)26}$ = 3R2	$9\overline{)82}$ = 9R1
$2\overline{)11}$ = 5R1	$6\overline{)38}$ = 6R2	$3\overline{)29}$ = 9R2	$7\overline{)58}$ = 8R2
$7\overline{)25}$ = 3R4	$8\overline{)50}$ = 6R2	$4\overline{)39}$ = 9R3	$8\overline{)27}$ = 3R3

Estimate each quotient.

$2\overline{)26}$ estimate = 10	$3\overline{)699}$ estimate = 200
$5\overline{)55}$ estimate = 10	$3\overline{)960}$ estimate = 300
$2\overline{)86}$ estimate = 40	$2\overline{)488}$ estimate = 200
$4\overline{)88}$ estimate = 20	$4\overline{)880}$ estimate = 200

Do you remember?

14 + [12] = 26	142 + [17] = 159
25 - [14] = 11	258 - [101] = 157
[22] + 23 = 45	[30] + 30 = 160

P.O. 4.05.02.03 & .05

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

1. $2\overline{)26}$ → 13 check: 13 × 2 = 26	2. $4\overline{)848}$ → 212 check: 212 × 4 = 848
3. $3\overline{)66}$ → 22 check: 22 × 3 = 66	4. $5\overline{)555}$ → 111 check: 111 × 5 = 555
5. $4\overline{)84}$ → 21 check: 21 × 4 = 84	6. $2\overline{)426}$ → 213 check: 213 × 2 = 426
7. $2\overline{)68}$ → 34 check: 34 × 2 = 68	8. $2\overline{)884}$ → 442 check: 442 × 2 = 884

Solve each problem and check.

There were 468 free tickets to the circus to be divided between 2 schools. How many tickets will each school get?	solve / check 234 tickets
John has 96 marbles. He wants to put the same amount into 3 containers. How many marbles will he put in each container?	solve / check 32 marbles

P.O. 4.05.02.04 & .05

NAME: _____ CLASS: _____ DATE: _____

Divide and check.

The remainder is the amount that is left over.

$$2\overline{)25} \quad 12 \text{ R } 1$$

check

$$\begin{array}{r} 12 \\ \times\ 2 \\ \hline 24 \\ +\ 1 \\ \hline 25 \end{array}$$

1. $3\overline{)34}$ 11 R 1

check

$$\begin{array}{r} 11 \\ \times 3 \\ \hline 33 \\ +\ 1 \\ \hline 34 \end{array}$$

2. $2\overline{)29}$ 14 R 1

check

$$\begin{array}{r} 14 \\ \times 2 \\ \hline 28 \\ +\ 1 \\ \hline 29 \end{array}$$

3. $4\overline{)45}$ 11 R 1

check

$$\begin{array}{r} 11 \\ \times 4 \\ \hline 44 \\ +\ 1 \\ \hline 45 \end{array}$$

4. $6\overline{)668}$ 111 R 2

check

$$\begin{array}{r} 111 \\ \times\ 6 \\ \hline 666 \\ +\ 2 \\ \hline 668 \end{array}$$

Solve each problem.

1. There are 247 balloons. If two friends share the balloons, how many will each friend get?

solve check

123 balloons

2. Jerry, Sam, and Charlie collected 634 bottlecaps. Each of the boys collected the same amount. How many bottlecaps did each boy collect?

solve check

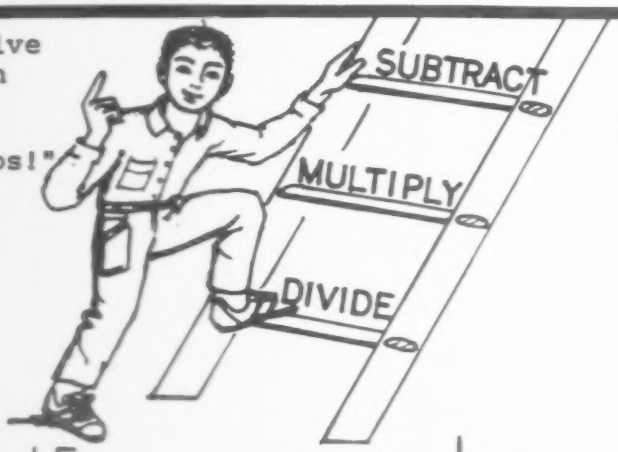
211 bottlecaps

P.O. 4.05.03.01

NAME: _____ CLASS: _____ DATE: _____

Solve and check each example.

"When I solve a division example I follow these steps!"



$$\begin{array}{r} 18 \\ 2\overline{)36} \end{array}$$

check

$$\begin{array}{r} 18 \\ \times\ 2 \\ \hline 36 \end{array}$$

1.) $\begin{array}{r} 15 \\ 3\overline{)45} \end{array}$

check

$$\begin{array}{r} 15 \\ \times 3 \\ \hline 45 \end{array}$$

2.) $\begin{array}{r} 27 \\ 2\overline{)54} \end{array}$

check

$$\begin{array}{r} 27 \\ \times\ 2 \\ \hline 54 \end{array}$$

3.) $\begin{array}{r} 13\text{R}3 \\ 5\overline{)68} \end{array}$

check

$$\begin{array}{r} 13 \\ \times 5 \\ \hline 65 \\ +\ 3 \\ \hline 68 \end{array}$$

4.) $\begin{array}{r} 13 \\ 7\overline{)91} \end{array}$

check

$$\begin{array}{r} 13 \\ \times 7 \\ \hline 91 \end{array}$$

5.) $\begin{array}{r} 217\text{R}1 \\ 2\overline{)435} \end{array}$

check

$$\begin{array}{r} 217 \\ \times\ 2 \\ \hline 434 \\ +\ 1 \\ \hline 435 \end{array}$$

6.) $\begin{array}{r} 216 \\ 3\overline{)648} \end{array}$

check

$$\begin{array}{r} 216 \\ \times\ 3 \\ \hline 648 \end{array}$$

P.O. 4.05.03.02

NAME: _____ CLASS: _____ DATE: _____

Find each quotient. Check your answers.

1. $2\overline{)354}$ → 177 — check: 177 × 2 = 354

2. $3\overline{)762}$ → 254 — check: 254 × 3 = 762

3. $4\overline{)536}$ → 134 (−4 = 13; −12 = 16; −16 = 0) — check: 134 × 4 = 536

4. $5\overline{)635}$ → 127 — check: 127 × 5 = 635

5. $6\overline{)804}$ → 134 — check: 134 × 6 = 804

6. $7\overline{)999}$ → 142 R5 — check: 142 × 7 = 994; + 5 = 999

CHALLENGE! Do you see a pattern? Divide each example.

$5\overline{)35}$ → 7	$5\overline{)350}$ → 70	$5\overline{)3{,}500}$ → 700	$5\overline{)35000}$ → 7000
$4\overline{)16}$ → 4	$4\overline{)160}$ → 40	$4\overline{)1{,}600}$ → 400	$4\overline{)16{,}000}$ → 4000
$7\overline{)21}$ → 3	$7\overline{)210}$ → 30	$7\overline{)2{,}100}$ → 300	$7\overline{)21{,}000}$ → 3000

P.O. 4.05.03.03

NAME: _____ CLASS: _____ DATE: _____

Solve each division example. Check your answers.

1. $3\overline{)315}$ = 105 check: 105 × 3 = 315	2. $2\overline{)218}$ = 109 check: 109 × 2 = 218	3. $4\overline{)416}$ = 104 check: 104 × 4 = 416
4. $3\overline{)924}$ = 308 check: 308 × 3 = 924	5. $5\overline{)530}$ = 106 check: 106 × 5 = 530	6. $2\overline{)415}$ = 207R1 check: 207 × 2 = 414, + 1 = 415
7. $6\overline{)624}$ = 104 check: 104 × 6 = 624	8. $4\overline{)832}$ = 208 check: 204 × 4 = 832	9. $5\overline{)521}$ = 104R1 check: 104 × 5 = 520, + 1 = 521

P.O. 4.05.03.04

NAME: _____ CLASS: _____ DATE: _____

Solve each problem. Check your answer.

1. Joan has a piece of string that is 38 centimeters long. She wants to cut the string into 2 equal pieces. How long will each piece be? 19 cm	solve	check
2. Matthew had 28 flower seeds. If he plants 5 seeds in each flower pot, how many pots can he fill? 5 pots	solve	check
3. Miguel has a job packing 3 cans in each box. How many boxes will 375 cans fill? 125 boxes	solve	check
4. Harry sold 314 candy bars in 2 days. If he sold the same amount on both days, how many did he sell on each day? 157 candy bars	solve	check
5. Mr. and Mrs. Keyes drove 416 miles in 4 days. If they drove the same number of miles each day, how many miles did they drive in one day? 104 miles	solve	check
6 There are 680 jellybeans in a jar. Five friends are going to share them equally. How many jellybeans will each friend get? 136 jellybeans	solve	check

SHARPENING YOUR SKILLS

Units 22, 23

Name: _____ **Class:** _____ **Date:** _____

1. $3\overline{)19}$

(a) 6 (c) 6R2

● 6R1 (d) Not Here

2. $2\overline{)64}$

(e) 34 (g) 31

● 32 (h) Not Here

3. Which example could be used to check this division?

$$4\overline{)\begin{array}{r}121\\484\end{array}}$$

(a) $\begin{array}{r}484\\\times\ \ 4\end{array}$ ● $\begin{array}{r}121\\\times\ \ 4\end{array}$

(b) $4\overline{)121}$ (d) $\begin{array}{r}484\\+121\end{array}$

4. $5\overline{)65}$

(e) 11 (g) 13R1

● 13 (h) Not Here

5. Solve and check.

$$7\overline{)98}\quad 14$$

check

14

X7

98

6. Solve and check.

$$3\overline{)375}\quad 125$$

check

125

X 3

375

7. $4\overline{)528}$

(a) 102 (c) 232

(b) 122 ● Not Here

8. $3\overline{)321}$

(e) 17 ● 107

(f) 170 (h) Not Here

9. It took Sally three weeks to read a book with 528 pages. If she read the same number of pages each week, how many pages did she read in one week?

176 pages

10. Maria had 165 pennies in 4 equal stacks. How many were in each stack? How many were left over?

41 pennies in each stack

1 pennies left over

P.O. 4.12.02.01-.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

1. Find the mean.

a)
32
25
15

mean = 24

b)
16
20
24
12

mean = 18

c)
219
132
20
153

mean = 131

2. The heights of the five starters on the Sparrows basketball team are 64", 70", 79", 76", and 81". What is the average height of the players on the team?

The average height is 74".

3. Chris and his family want to move to a city where the average temperature is not less than 65 degrees. Here are the two month averages for five cities. Compute the yearly average for each city and tell Chris in which cities he can live.

Month	AV=60° Seattle	AV=50° Chicago	AV=65° New York	AV=76° Los Angeles	AV=71° San Francisco
Jan. - Feb.	28°	29°	38°	66°	60°
March - April	53°	41°	63°	71°	65°
May - June	65°	66°	76°	83°	77°
July - August	79°	70°	87°	88°	83°
Sept. - Oct.	75°	55°	76°	78°	75°
Nov. - Dec.	60°	39°	50°	70°	66°

The cities to which Chris might move are New York, Los Angeles and San Francisco.

Do you remember?

11	11	11	11	12	12	12	12
x 6	x 4	x 8	x 7	x 5	x 9	x 4	x 7
66	44	88	77	60	108	48	84

P.O. 4.12.02.03-.04

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

1. Find the range for each set of numbers below.

a)
25
36
77
53

Range = 52

b)
825
716
429
387

Range = 438

c)
462
1128
199
716

Range = _____

2. Circle the group with the smallest range.

a)
211
315
825
650

b)
112
229
538
312

c)
825
476
152
666

3. Which students have the greatest range in test scores? Put a check next to their names.

✓	Al	75, 90, 86, 35, 66, 71, 90
	Betty	63, 72, 96, 42, 75, 80, 86
	Connie	65, 87, 92, 39, 78, 88, 67
✓	Dan	79, 89, 95, 40, 72, 89, 93

4. Below are the daily temperatures for one week. Find the mode.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
86°	84°	88°	84°	90°	84°	85°

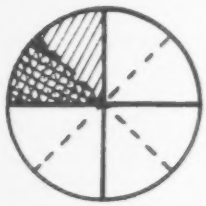
Mode = 84°

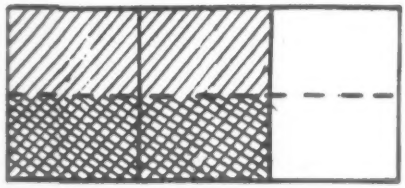
P.O. 4.06.02.01

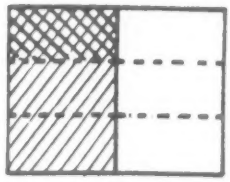
NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Solve each multiplication sentence below.







$\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$ $\frac{1}{2} \times \frac{2}{3} = \boxed{\frac{2}{6}}$ $\frac{1}{3} \times \frac{1}{2} = \boxed{\frac{1}{6}}$

Complete the number sentences below. Then solve the following riddle: I will awaken at a special moment. Who am I?

S	L	E	E	P	I	N	G		B	E	A	U	I	Y
$\frac{1}{16}$	$\frac{2}{20}$	$\frac{3}{20}$	$\frac{3}{20}$	$\frac{4}{9}$	$\frac{2}{12}$	$\frac{2}{10}$	$\frac{3}{16}$		$\frac{3}{12}$	$\frac{3}{20}$	$\frac{2}{16}$	$\frac{2}{15}$	$\frac{4}{10}$	$\frac{6}{15}$

$\frac{1}{8} \times \frac{1}{2} = \boxed{\frac{1}{16}}$ S $\quad \frac{3}{5} \times \frac{2}{3} = \boxed{\frac{6}{15}}$ Y $\quad \frac{4}{5} \times \frac{1}{2} = \boxed{\frac{4}{10}}$ T

$\frac{2}{5} \times \frac{1}{3} = \boxed{\frac{2}{15}}$ U $\quad \frac{1}{2} \times \frac{2}{10} = \boxed{\frac{2}{20}}$ L $\quad \frac{1}{4} \times \frac{2}{4} = \boxed{\frac{2}{16}}$ A

$\frac{3}{4} \times \frac{1}{5} = \boxed{\frac{3}{20}}$ E $\quad \frac{2}{3} \times \frac{2}{3} = \boxed{\frac{4}{9}}$ P $\quad \frac{1}{3} \times \frac{3}{4} = \boxed{\frac{3}{12}}$ B

$\frac{3}{8} \times \frac{1}{2} = \boxed{\frac{3}{16}}$ G $\quad \frac{1}{2} \times \frac{2}{5} = \boxed{\frac{2}{10}}$ N $\quad \frac{1}{4} \times \frac{2}{3} = \boxed{\frac{2}{12}}$ I

P.O. 4.06.02.02-.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Write each whole number as a fraction.

$16 = \frac{16}{1}$ $23 = \frac{23}{1}$ $46 = \frac{46}{1}$ $12 = \frac{12}{1}$ $8 = \frac{8}{1}$

Write each fraction as a whole number.

$\frac{17}{1} = 17$ $\frac{15}{1} = 15$ $\frac{37}{1} = 37$ $\frac{25}{1} = 25$ $\frac{56}{1} = 56$

Write each whole number as a fraction. Multiply to find the product.

a) $5 \times \frac{1}{8} = \frac{5}{1} \times \frac{1}{8} = \frac{5}{8}$

b) $3 \times \frac{1}{4} = \frac{3}{1} \times \frac{1}{4} = \frac{3}{4}$

c) $6 \times \frac{1}{12} = \frac{6}{1} \times \frac{1}{12} = \frac{6}{12}$

d) $3 \times \frac{3}{10} = \frac{3}{1} \times \frac{3}{10} = \frac{9}{10}$

e) $2 \times \frac{2}{5} = \frac{2}{1} \times \frac{2}{5} = \frac{4}{5}$

f) $4 \times \frac{3}{16} = \frac{4}{1} \times \frac{3}{16} = \frac{12}{16}$

CHALLENGE! Solve the word problems.

1. Joe needs $\frac{3}{8}$ foot of ribbon for each award. How much ribbon does he need for 2 awards? Answer: $\frac{6}{8}$ ft.

2.a) Jackie used $\frac{1}{4}$ teaspoon of salt for her recipe. How much salt will she use if she triples her recipe?

Answer: $\frac{3}{4}$ tsp.

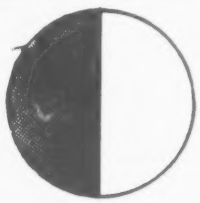
b) How much salt will she have left if she began with one teaspoon of salt? Answer: $\frac{1}{4}$ tsp.

P.O. 4.06.03.01

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

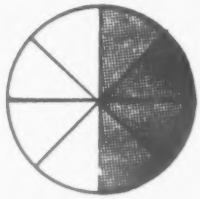
1. Name each shaded fraction. Then cut along the dotted lines.
2. Use the cards to play Match Game. Choose a partner for this game.
3. Place the cards face down.
4. Pick two cards. If they are equivalent fractions, you may keep the cards and try again.
5. If they are not equivalent fractions return the cards and the other player may take a turn.
6. The player with the most cards at the end of the game is the winner.



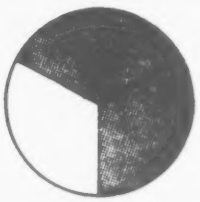
$\frac{1}{2}$

$\frac{2}{4}$

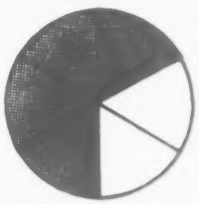
$\frac{3}{6}$



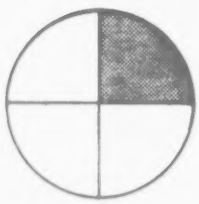
$\frac{4}{8}$



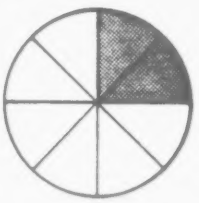
$\frac{2}{3}$



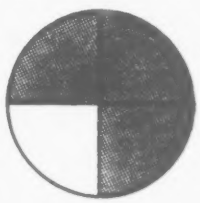
$\frac{4}{6}$



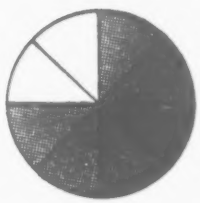
$\frac{1}{4}$



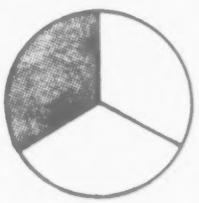
$\frac{2}{8}$



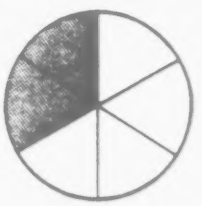
$\frac{3}{4}$



$\frac{6}{8}$



$\frac{1}{3}$



$\frac{2}{6}$

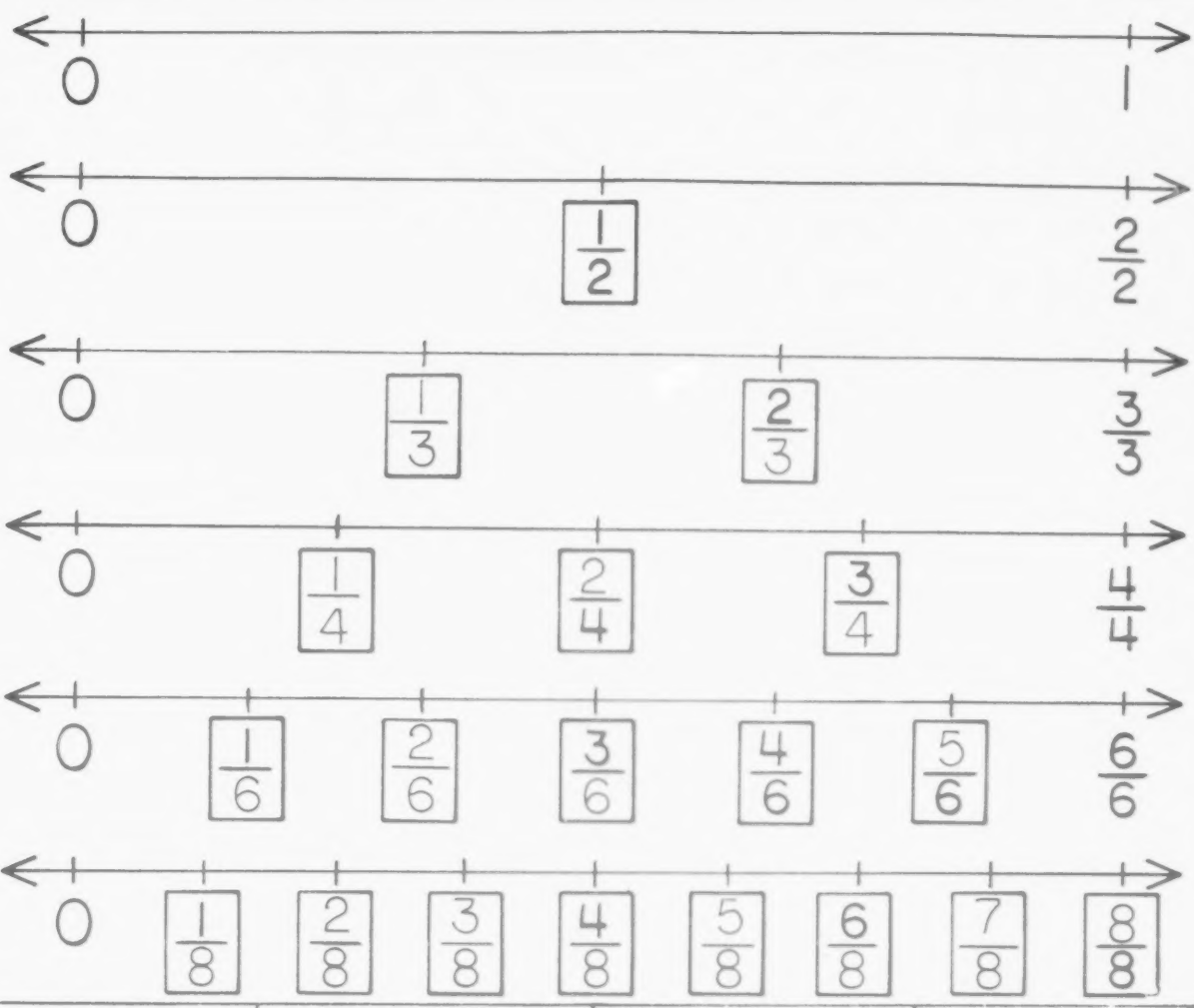
73

93

P.O. 4.06.03.02

NAME: _____ CLASS: _____ DATE: _____

Fill in the missing points on each number line. Use the number lines to find the equivalent fractions.



$\frac{1}{2} = \frac{2}{4}$	$\frac{3}{3} = \frac{6}{6}$	$\frac{6}{6} = \frac{4}{4}$	$\frac{1}{2} = \frac{4}{8}$
$\frac{2}{3} = \frac{4}{6}$	$\frac{1}{3} = \frac{2}{6}$	$\frac{4}{8} = \frac{2}{4}$	$\frac{1}{4} = \frac{2}{8}$
$\frac{1}{2} = \frac{3}{6}$	$\frac{2}{2} = \frac{4}{4}$	$\frac{3}{4} = \frac{6}{8}$	$\frac{4}{4} = \frac{8}{8}$

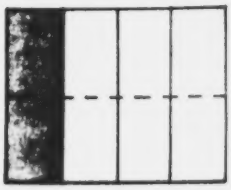
75

P.O. 4.06.03.03

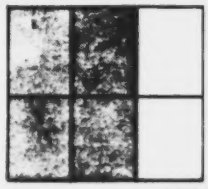
NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

A. Draw a horizontal line to make an equivalent fraction. Name the equivalent fraction.

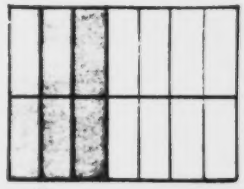


$\frac{1}{4} = \frac{2}{8}$



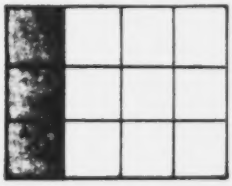
$\frac{2}{3} = \boxed{\frac{4}{6}}$

$\frac{2}{4} = \boxed{\frac{4}{8}}$

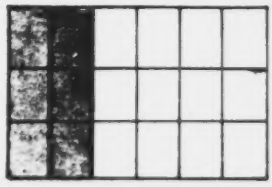


$\frac{3}{7} = \boxed{\frac{6}{14}}$

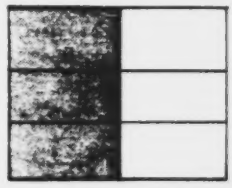
B. Draw two horizontal lines to make equivalent fractions. Name the equivalent fractions.



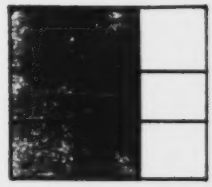
$\frac{1}{4} = \frac{3}{12}$



$\frac{2}{6} = \boxed{\frac{6}{18}}$



$\frac{1}{2} = \boxed{\frac{3}{6}}$



$\frac{2}{3} = \boxed{\frac{6}{9}}$

C. Name the equivalent fraction.

$\frac{1}{2} = \frac{2}{\boxed{4}}$ $\frac{2}{3} = \frac{\boxed{4}}{6}$ $\frac{1}{5} = \frac{3}{\boxed{15}}$ $\frac{3}{4} = \frac{9}{\boxed{12}}$

D. Name one equivalent fraction for each fraction below. Answers will vary.

$\frac{1}{3} = \square$ $\frac{2}{5} = \square$ $\frac{1}{8} = \square$ $\frac{5}{6} = \square$

CHALLENGE!

Look at each fraction in the code boxes. Find an equivalent fraction in the boxes below and write the code letter in the box.

WHAT HAS A BARK

BUT NEVER BITES?

E	T	A	R
$\frac{1}{2}$	$\frac{2}{3}$	$\frac{2}{5}$	$\frac{3}{4}$

$\frac{4}{10}$
A

$\frac{4}{6}$	$\frac{6}{8}$	$\frac{5}{10}$	$\frac{3}{6}$
T	R	E	E

SHARPENING YOUR SKILLS

Units 24, 25, 26

Name: _____ **Class:** _____ **Date:** _____

1. Find the average of the following numbers:

   26, 22, 30, 18

   The average is 24.

Use the following table to answer questions 2 and 3.

Weekly	Temperature
Sunday	80°
Monday	82°
Tuesday	69°
Wednesday	87°
Thursday	72°
Friday	82°
Saturday	82°

2. What was the range in temperature for the past week?

   (a) 80° ● 18°
   (b) 82° (d) 22°

3. Find the mode for the weekly temperature.

   (e) 18° (g) 87°
   (f) 69° ● 82°

4. Sal was reading an adventure story. He read 18 pages on Monday, 16 pages on Tuesday, 24 pages on Wednesday, 12 pages on Thursday, and 20 pages on Friday. What was the average number of pages Sal read each day?

   (a) 90 pages ● 18 pages
   (b) 20 pages (d) Not Here

5. $\frac{2}{5} \times \frac{1}{2} = \square$

   (e) $\frac{2}{5}$ ● $\frac{2}{10}$
   (f) $\frac{3}{7}$ (h) Not Here

6. $\frac{1}{2} \times \frac{3}{4} = \frac{3}{8}$

7. $3 \times \frac{1}{5} = \frac{3}{5}$

8. $\frac{1}{4} \times 3 = \frac{3}{4}$

9. $\frac{1}{2} = \frac{\square}{4}$

   (a) 1 (c) 3
   ● 2 (d) Not Here

10. $\frac{3}{4} = \frac{\square}{8}$

    (e) 3 (g) 5
    ● 6 (h) Not Here

11. $\frac{2}{5} = \frac{6}{15}$

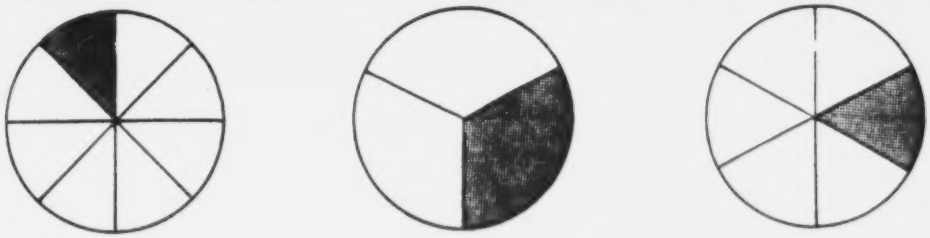
12. Name 2 fractions that are equivalent to $\frac{1}{3}$. Answers will vary.

    $\frac{1}{3} = \square$ $\frac{1}{3} = \square$

P.O. 4.06.04.01-.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.



1. Look at the three circles. Write the shaded fractions from least to greatest.

$\frac{1}{8} < \frac{1}{6} < \frac{1}{3}$

2. $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{3}$

Which of these fractions is neither greatest nor least?

$\frac{1}{3}$

3. $\frac{1}{6}$ $\frac{1}{5}$ $\frac{1}{8}$

Arrange these fractions from greatest to least. Fill in > or <.

$\frac{1}{5} > \frac{1}{6} > \frac{1}{8}$

4. Billy had $\frac{1}{4}$ of a dollar, Susie had $\frac{1}{10}$ of a dollar, and Maria had $\frac{1}{2}$ of a dollar. List the fractions in order from greatest to least.

$\frac{1}{2} > \frac{1}{4} > \frac{1}{10}$

Who had the most money?

Maria had the most money.

5. If Eddie worked $\frac{1}{5}$ of an hour on Monday, $\frac{1}{3}$ of an hour on Tuesday, and $\frac{1}{4}$ of an hour on Wednesday, on which day did he work the greatest amount of time?

Tuesday

On which day did he work the least amount of time?

Monday

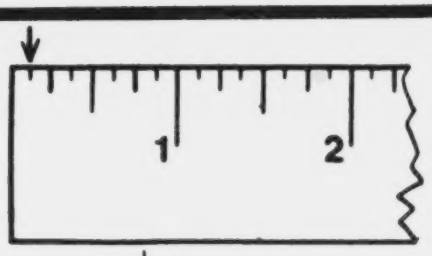
6. Look at each group of fractions. Write > or < in each circle to make each statement true.

$\frac{1}{2} > \frac{1}{4} > \frac{1}{6}$	$\frac{1}{5} < \frac{1}{3} < \frac{1}{2}$	$\frac{1}{6} > \frac{1}{7} > \frac{1}{8}$
$\frac{1}{6} > \frac{1}{10} > \frac{1}{20}$	$\frac{1}{8} < \frac{1}{4} < \frac{1}{3}$	$\frac{1}{23} < \frac{1}{22} < \frac{1}{21}$

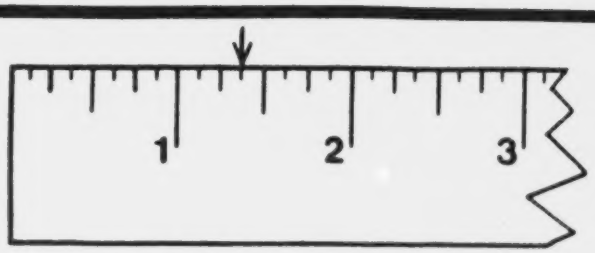
P.O. 4.10.02.01

NAME: _____ CLASS: _____ DATE: _____

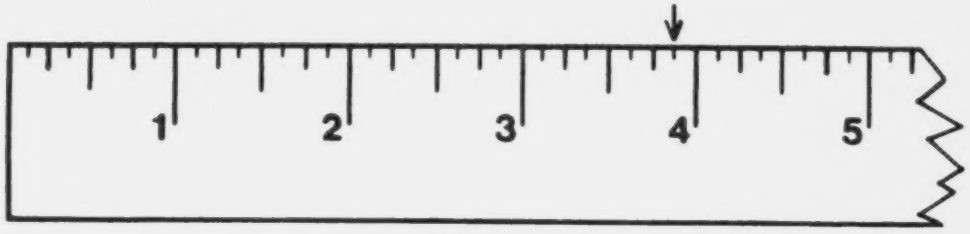
Write the measurement to which the arrows are pointing.



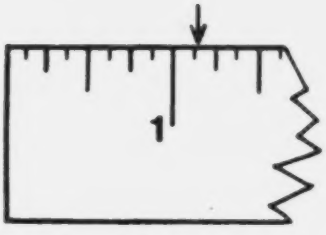
$\frac{1}{8}$ inch



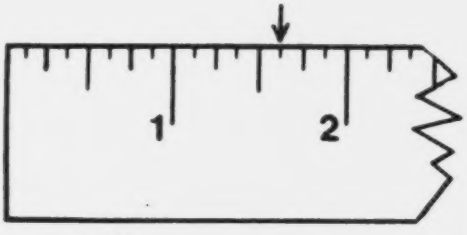
$1\frac{3}{8}$ inches



$3\frac{7}{8}$ inches



$1\frac{1}{8}$ inches



$1\frac{5}{8}$ inches

CHALLENGE!

How many $\frac{1}{8}$ inches are there in 3 inches? 24

How many $\frac{1}{4}$ inches are there in 3 inches? 12

How many $\frac{1}{2}$ inches are there in 3 inches? 6

P.O. 4.10.02.02 - .04

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

A. Complete the chart.

12 inches = 1 foot

36 inches = 1 yard

3 feet = 1 yard

5,280 feet = 1 mile

1,760 yards = 1 mile

B. Write inches, feet, yards, miles, or kilometer to complete each sentence.

1. Jackie ran a marathon. She ran 26 miles.
2. Sue is 48 inches tall.
3. The door to our classroom is about 6 feet high.
4. Teddy has a swimming pool in his backyard. The water is 4 feet deep.
5. One thousand meters equals one kilometer.
6. A football field measures 100 yards.

Do you remember?

20	60	40	300	500	700	800
x 4	x 3	x 5	x 3	x 4	x 2	x 4
80	180	200	900	2,000	1,400	3,200

SHARPENING YOUR SKILLS

Units 27, 28

Name: _____ Class: _____ Date: _____

1. Which number sentence correctly describes the shaded parts of these figures?

(a) $\frac{1}{5} > \frac{1}{4} > \frac{1}{3}$ ● $\frac{1}{5} < \frac{1}{4} < \frac{1}{3}$

(b) $\frac{1}{5} > \frac{1}{4} < \frac{1}{3}$ (d) Not Here

2. Billy walked $\frac{1}{4}$ of a kilometer after breakfast, $\frac{1}{2}$ of a kilometer after lunch, and $\frac{1}{3}$ of a kilometer after dinner. When did Billy do the most walking?

● after lunch

(f) after dinner

(g) after breakfast

(h) at midnight

3. Write the fractions for the shaded parts of these figures in order from least to greatest.

$\frac{1}{8} < \frac{1}{5} < \frac{1}{2}$

4. Write these 3 fractions in order from greatest to least.

$\frac{1}{6}$ $\frac{1}{3}$ $\frac{1}{8}$

$\frac{1}{3} > \frac{1}{6} > \frac{1}{8}$

5. Pat must walk a very long way to get to her grandmother's house. Which of these distances might tell how far away her grandmother lives?

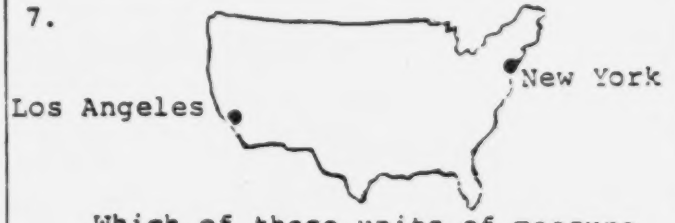
● a mile (c) a meter

(b) a yard (d) a foot

6. Nora measured her room. It was 4 yards long. How many feet long is her room?

Her room is 12 feet long.

7.



Which of these units of measure would be best for measuring the distance from New York to Los Angeles?

(e) inches (g) yards

(f) meters ● kilometers

8. Here are 3 distances:

$\frac{1}{5}$ of a mile, $\frac{1}{3}$ of a mile, $\frac{1}{10}$ of a mile

Which distance is greatest? $\frac{1}{3}$ mi

Which distance is least? $\frac{1}{10}$ mi

100

P.O. 4.01.04.01-.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Here are 4 consecutive numbers: 6, 7, 8, 9.

How many are odd? 2 How many are even? 2

Here are 10 consecutive numbers:

19, 20, 21, 22, 23, 24, 25, 26, 27, 28.

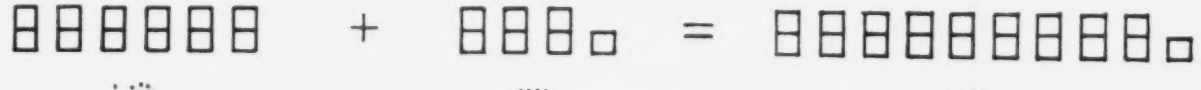
How many are odd? 5 How many are even? 5

Draw a ring around the numbers below which can be divided by 2 with no remainder.

37 15 (26) (18) 43 (52) (66) (12) 81

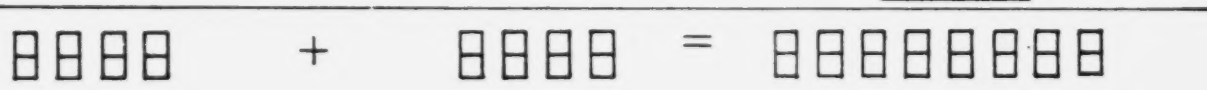
What kind of numbers are the circled numbers? even numbers

Look at the pictures below to find the sums. Write whether they are odd or even.



12 (even) + 7 (odd) = 19 (odd)

9 (odd) + 13 (odd) = 22 (even)



8 (even) + 8 (even) = 16 (even)

Now try these:

even + odd = odd

odd + even = odd

odd + odd = even

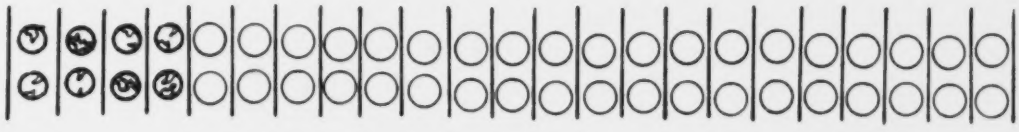
even + even = even

P.O. 4.01.04.01-.02 & .04

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

1. Jackie had 46 marbles. She arranged them in groups of two. Draw the groups.



Are there any left over? no Is 46 odd or even? even

2. Arrange these coins in sets of two.

Are there any left over? yes Is the number odd or even? odd What is the number? 13

3. Divide each number by 2. Is it odd or even?

52 even	31 odd	44 even	100 even
73 odd	80 even	88 even	36 even
66 even	27 odd	89 odd	75 odd

4. Subtract. Write odd or even on each line.

36 - 21 = 15 even - odd = odd	41 - 15 = 26 odd - odd = even	32 - 18 = 14 even - even = even
3 - 2 = 1 odd - even = odd	92 - 42 = 50 even - even = even	61 - 41 = 20 odd - odd = even

P.O. 4.09.02.01-.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

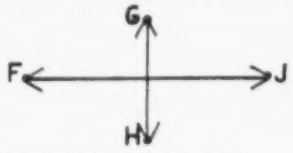
1. Connect the points to show the following:

a.) two intersecting lines

Name the lines:

$\overleftrightarrow{AD}$ and $\overleftrightarrow{BC}$

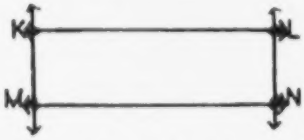
b.) two perpendicular lines



Name the lines:

$\overleftrightarrow{GH}$ and $\overleftrightarrow{FJ}$

c.) two parallel lines



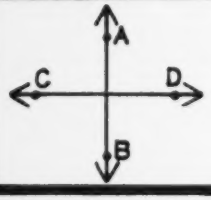
Name the lines:

$\overleftrightarrow{KM}$ and $\overleftrightarrow{LN}$ or $\overleftrightarrow{KL}$ $\overleftrightarrow{MN}$

2. a.) What kind of lines are these? intersecting

b.) At how many points do the lines intersect? one

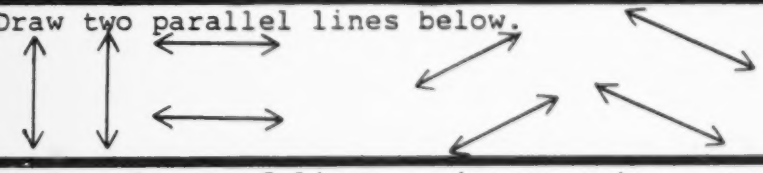
c.) Name the point where they intersect. F



3. a.) What kind of lines are these? perpendicular

b.) How many right angles are formed where they intersect? 4

4. Draw two parallel lines below.

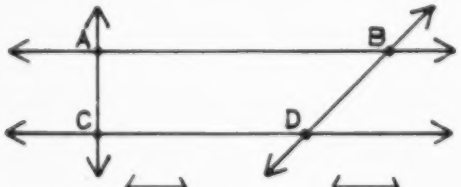


Answers will vary.

5. Label each set of lines as intersecting, perpendicular, or parallel.

parallel perpendicular intersecting intersecting parallel

CHALLENGE!



a.) Name the parallel lines. $\overleftrightarrow{AB}$ and $\overleftrightarrow{CD}$.

b.) Name the perpendicular lines. $\overleftrightarrow{AC}$ and $\overleftrightarrow{AB}$; $\overleftrightarrow{AC}$ and $\overleftrightarrow{CD}$.

84

SHARPENING YOUR SKILLS

Units 29, 30

Name: _____ **Class:** _____ **Date:** _____

1. A number which, when divided by 2, leaves no remainder is called an even number.

2. A number which, when divided by 2, leaves a remainder of 1 is called an odd number.

3. An even number plus an even number equals an even number.

4. An even number added to an odd number equals an odd number.

5. The sum of two odd numbers will always be an even number.

6. The difference of two odd numbers will always be an even number.

7. An even number minus an even number equals an even number.

8. If we subtract an even number from an odd number, the difference will be an odd number.

9. Intersecting lines are lines that

(a) never cross each other.
● cross each other at one point.
(c) cross each other at two points.
(d) Not Here

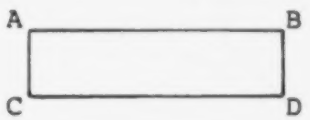
10. Parallel lines are lines that

● never cross each other.
(f) cross each other at one point.
(g) cross each other at two points.
(h) Not Here

11. Right angles are formed by

(a) intersecting lines.
(b) parallel lines.
● perpendicular lines.
(d) Not Here

12. Name the parallel line segments in this figure.



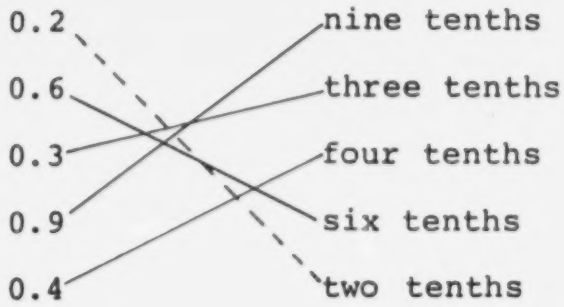
$\overline{AB}$ and $\overline{CD}$; $\overline{AC}$ and $\overline{BD}$

P.O. 4.07.01.01-.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Draw a line to match the decimal number with the words.



Write the decimal number for each fraction.

$\frac{8}{10}$ = 0.8

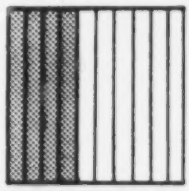
$\frac{1}{10}$ = 0.1

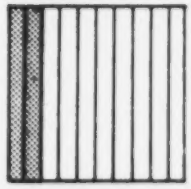
$\frac{5}{10}$ = 0.5

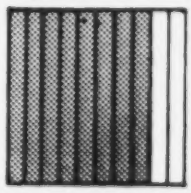
$\frac{2}{10}$ = 0.2

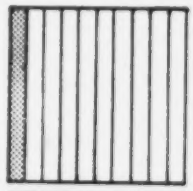
$\frac{9}{10}$ = 0.9

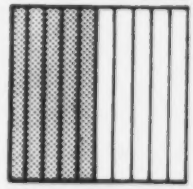
Write the decimal number for the shaded portion of each picture.

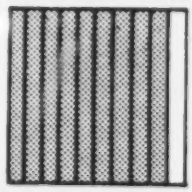
a.  0.4

b.  0.2

c.  0.8

d.  0.1

e.  0.5

f.  0.9

Count by tenths. Write the missing numbers.

0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1 whole

1 whole, 0.9, 0.8, 0.7, 0.6, 0.5, 0.4, 0.3, 0.2, 0.1

P.O. 4.97.01.04

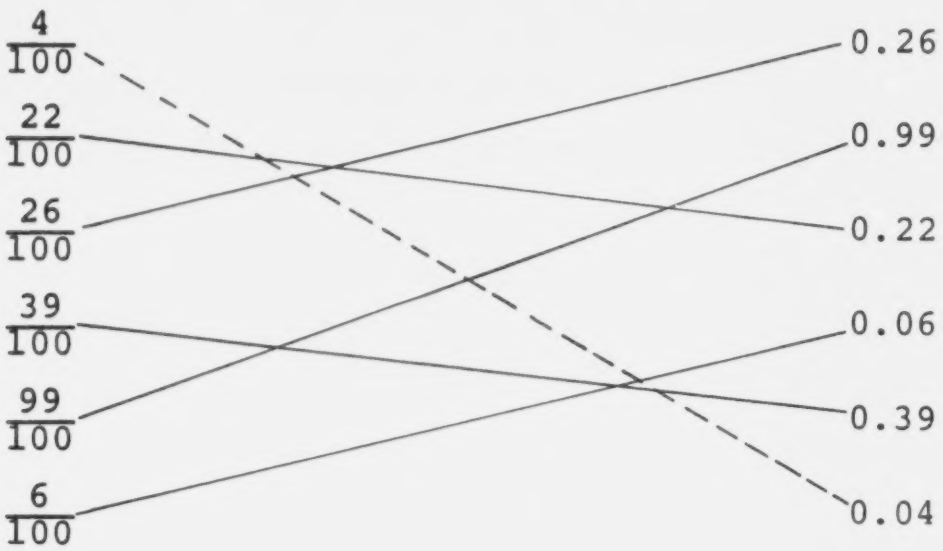
NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Write each fraction below as a decimal.

$\frac{12}{100}$	$\frac{25}{100}$	$\frac{37}{100}$	$\frac{5}{100}$	$\frac{1}{100}$	$\frac{7}{100}$	$\frac{9}{100}$
0.12	0.25	0.37	0.05	0.01	0.07	0.09

Draw a line to connect each fraction with its equivalent decimal form.



Write each of the following in decimal form.

sixty-three hundredths 0.63

eleven hundredths 0.11

five hundredths 0.05

fifty hundredths 0.50

twenty hundredths 0.20

seventeen hundredths 0.17

seventy-two hundredths 0.72

ninety-nine hundredths 0.99

Do you remember?

$\frac{3}{4} \times \frac{1}{2} = \boxed{\frac{3}{8}}$ $\frac{1}{4} \times \frac{1}{3} = \boxed{\frac{1}{12}}$ $\frac{1}{2} \times \frac{3}{5} = \boxed{\frac{3}{10}}$ $\frac{2}{3} \times \frac{1}{5} = \boxed{\frac{2}{15}}$

P.O. 4.07.01.05

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Match each circled number with its equivalent value.

8.(4)6 $\frac{4}{1}$ $\frac{4}{10}$ $\frac{4}{100}$	9.0(7) $\frac{7}{10}$ $\frac{7}{1}$ $\frac{7}{100}$	6.2(5) $\frac{5}{100}$ $\frac{5}{10}$ $\frac{5}{1}$
(1).11 $\frac{1}{10}$ 1 $\frac{1}{100}$	2.(3)9 $\frac{3}{100}$ $\frac{3}{10}$ 3	9.7(8) $\frac{8}{100}$ 8 $\frac{8}{10}$

Build a Number

6 in the hundredths column
2 in the ones column
1 in the tenths column

The number is 2.16.

5 in the hundredths column
0 in the ones column
0 in the tenths column

The number is 0.05.

9 in the tens column
1 in the tenths column
3 in the hundredths column
2 in the ones column

The number is 92.13.

4 in the ones column
7 in the tenths column
5 in the tens column
1 in the hundredths column

The number is 54.71.

CHALLENGE!

Look for a pattern in each series of numbers below.
Write the next two numbers in each series.

1, 3, 4, 6, 7, 9, 10, 12, 13
2, 4, 3, 6, 5, 10, 9, 18, 17
18, 9, 10, 5, 6, 3, 4, 2, 3

P.O. 4.07.02.01

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

① Gloria ran 100 yards in 14.27 seconds. Joey ran 100 yards in 14.72 seconds. Who ran the 100 yard distance in less time? Gloria ran the distance in less time.

Fill in > or <. 14.27 < 14.72

② Joan ran 3.1 kilometers. John ran 2.93 kilometers. Who ran the greater distance? Joan ran the greater distance.

Fill in > or <. 3.1 > 2.93

③ Write >, <, or = so that each statement is true.

0.23 > 0.15	2.41 < 2.50	0.73 > 0.47
0.41 < 0.75	0.56 < 0.91	3.9 = 3.9
2.4 < 2.43	56.1 < 56.19	23.1 > 2.31
0.42 < 4.2	3.2 = 3.2	0.14 = 0.14

④ Write the numbers below in decreasing order.

4.1, 4.01, 4.11 4.11 > 4.1 > 4.01

13.6, 13.62, 13.59 13.62 > 13.6 > 13.59

⑤ Write the numbers below in increasing order.

0.17, 0.09, 0.13 0.09 < 0.13 < 0.17

4.31, 4.30, 4.35 4.30 < 4.31 < 4.35

P.O. 4.07.02.02

NAME: _____ CLASS: _____ DATE: _____

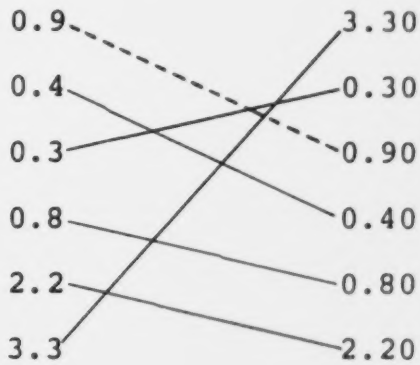
Follow the directions below.

Write each pair of equivalent fractions as equivalent decimals.

$\frac{6}{10} = \frac{60}{100}$ $\frac{5}{10} = \frac{50}{100}$ $2\frac{8}{10} = 2\frac{80}{100}$

0.6 = 0.60 0.5 = 0.50 2.8 = 2.80

Match each decimal in column A with an equivalent decimal in column B.



Express each decimal as hundredths.

0.6 = 0.60

5.4 = 5.40

8.8 = 8.80

2.1 = 2.10

3.0 = 3.00

Write >, <, or = so that each statement is true.

6.5 = 6.50 8.2 > 8.02 1.1 = 1.10

2.1 > 1.20 3.4 < 4.30 1.1 > 1.0

4.0 = 4.00 6.1 < 6.11 3.9 < 4.0

CHALLENGE!

Answers will vary.

How many rectangles can you find? _____

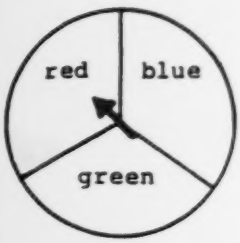
P.O. 4.12.03.01-.02

NAME: _____ CLASS: _____ DATE: _____

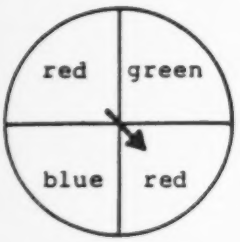
Follow the directions below.

A.

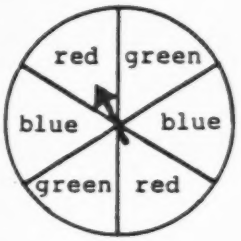
What is the probability that the spinner will land on red on each of the following spinners?



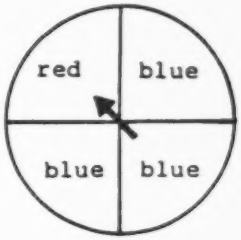
$\frac{1}{3}$



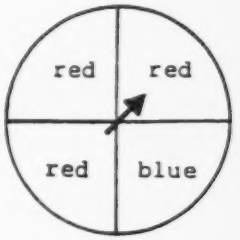
$\frac{2}{4}$



$\frac{2}{6}$



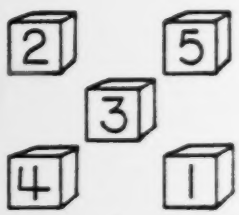
$\frac{1}{4}$



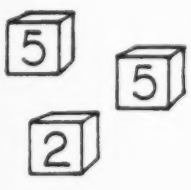
$\frac{3}{4}$

B.

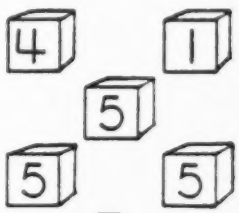
If you were to pick a block from each group below, without looking, what is the probability that you would pick a block with a 5 on it?



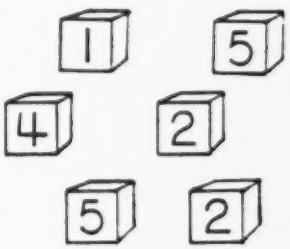
$\frac{1}{5}$



$\frac{2}{3}$



$\frac{3}{5}$



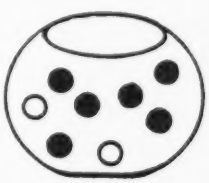
$\frac{2}{6}$

C.

Here are 8 marbles.

How many are black? 6

How many are white? 2



If you were to pick a marble without looking, would you be more likely to pick a white marble or a black marble? black

What is the probability of picking a white marble? $\frac{2}{8}$

What is the probability of picking a black marble? $\frac{6}{8}$

P.O. 4.12.03.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

If you toss a coin it can land heads up or tails up.

heads

tails

What is the probability that the coin will land heads up? $\frac{1}{2}$

What is the probability that the coin will land tails up? $\frac{1}{2}$

How many times do you think heads will come up if you toss a coin 10 times? 5

20 times? 10

Now do the experiment. Toss a coin 10 times and tally the results. Compare the results with your prediction. Then continue tossing the coin 10 more times for a total of 20 tosses. Again compare the results with your prediction.

Answers will vary.

Tossing a Coin

Heads	
Tails	

After 10 tosses: _____ heads and _____ tails.

After 20 tosses: _____ heads and _____ tails.

SHARPENING YOUR SKILLS

Units 31, 32, 33

Name: _____ **Class:** _____ **Date:** _____

1. We read the numeral 0.5 as _____.

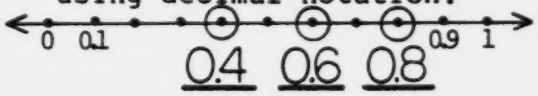
(a) five ● five tenths
(b) five tens (d) Not Here

2.

Which is the decimal fraction for the shaded part of this figure?

(e) 0.4 (g) 6.0
● 0.6 (h) Not Here

3. Label the three circled points on the number line using decimal notation.



0.4 0.6 0.8

4. $\frac{37}{100} = \square$

(a) 3.7 (c) 0.037
● 0.37 (d) Not Here

5. 4.2<u>5</u>

What is the place value of the underlined digit?

(e) 5 ones ● 5 hundredths
(f) 5 tenths (h) Not Here

6. Compare each pair of decimals below. Use >, <, or =.

0.84	>	0.48
2.02	<	2.20
8.4	=	8.24
5.27	<	5.34

7. 0.2 is equivalent to _____.

(a) 2.0 (c) 20.0
● 0.20 (d) Not Here

8.

Which fraction represents the probability of the spinner landing on blue?

(e) $\frac{1}{2}$ (g) $\frac{1}{4}$
(f) $\frac{2}{3}$ ● Not Here

9.

What is the probability of the spinner landing on a number less than 7?

(a) $\frac{1}{4}$ (c) $\frac{3}{4}$
● $\frac{2}{4}$ (d) Not Here

10.

What is the probability of the spinner landing on an odd number?

Probability = $\frac{3}{6}$

11. There are 3 red marbles and 5 blue marbles in a bag. What is the probability that you will pick a red marble?

Probability = $\frac{3}{8}$

P.O. 4.01.05.01

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Remember:
Factors are numbers that, when multiplied together, equal a product.

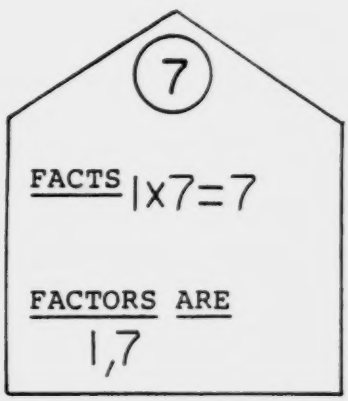
What are the factors of 3?

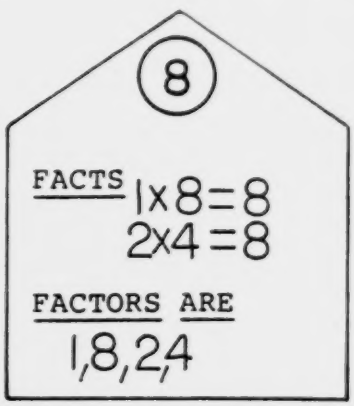
$1 \times 3 = 3 \quad 3 \times 1 = 3$

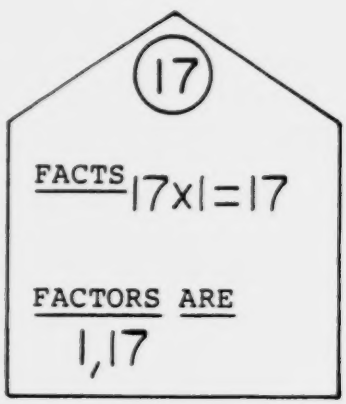
The factors of 3 are 1 and 3.

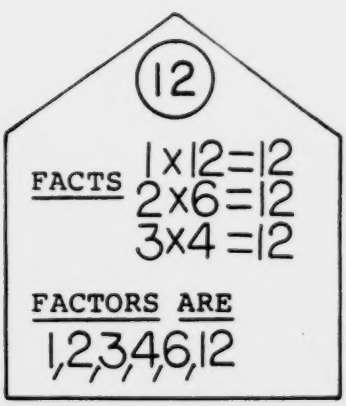
Don't Forget:
A prime number has only 2 factors, 1 and itself.

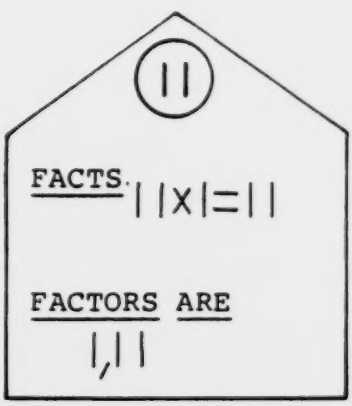
Write all the multiplication facts for each circled number. Then list all the factors of each number.

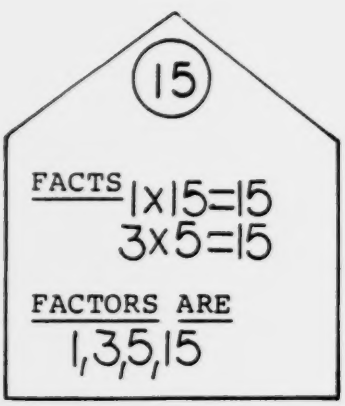












Circle yes or no.

Is 7 a prime number?	(Yes)	No	Is 11 a prime number?	(Yes)	No
Is 12 a prime number?	Yes	(No)	Is 17 a prime number?	(Yes)	No
Is 8 a prime number?	Yes	(No)	Is 15 a prime number?	Yes	(No)

P.O. 4.01.05.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions in Strategy 1.

Sieve of Eratosthenes

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

List the prime numbers:

2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97

Do you remember?

$3\overline{)96}$ = 32 — check: $32 \times 3 = 96$

$2\overline{)482}$ = 241 — check: $241 \times 2 = 482$

$4\overline{)848}$ = 212 — check: $212 \times 4 = 848$

P.O. 4.01.05.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Let's find all the factors of [6] .

2 x 3 = 6 6 x 1 = 6

[2, 3, 1, and 6] are factors of 6.

Remember

A composite number has more than 2 factors.

6 is a composite number.

Write all the multiplication facts for each number. Then list all the factors of each number.

(10)

FACTS 1x10=10, 2x5=10

FACTORS ARE 1,10,2,5

(16)

FACTS 1x16=16, 2x8=16, 4x4=16

FACTORS ARE 1,16,2,8,4

(18)

FACTS 1x18=18, 2x9=18, 3x6=18

FACTORS ARE 1,18,2,9,3,6

(13)

FACTS 1x13=13

FACTORS ARE 1,13

(19)

FACTS 1x19=19

FACTORS ARE 1,19

(25)

FACTS 1x25=25, 5x5=25

FACTORS ARE 1,25,5

Complete each sentence with the word prime or composite.

10 is a composite number.

13 is a prime number.

16 is a composite number.

19 is a prime number.

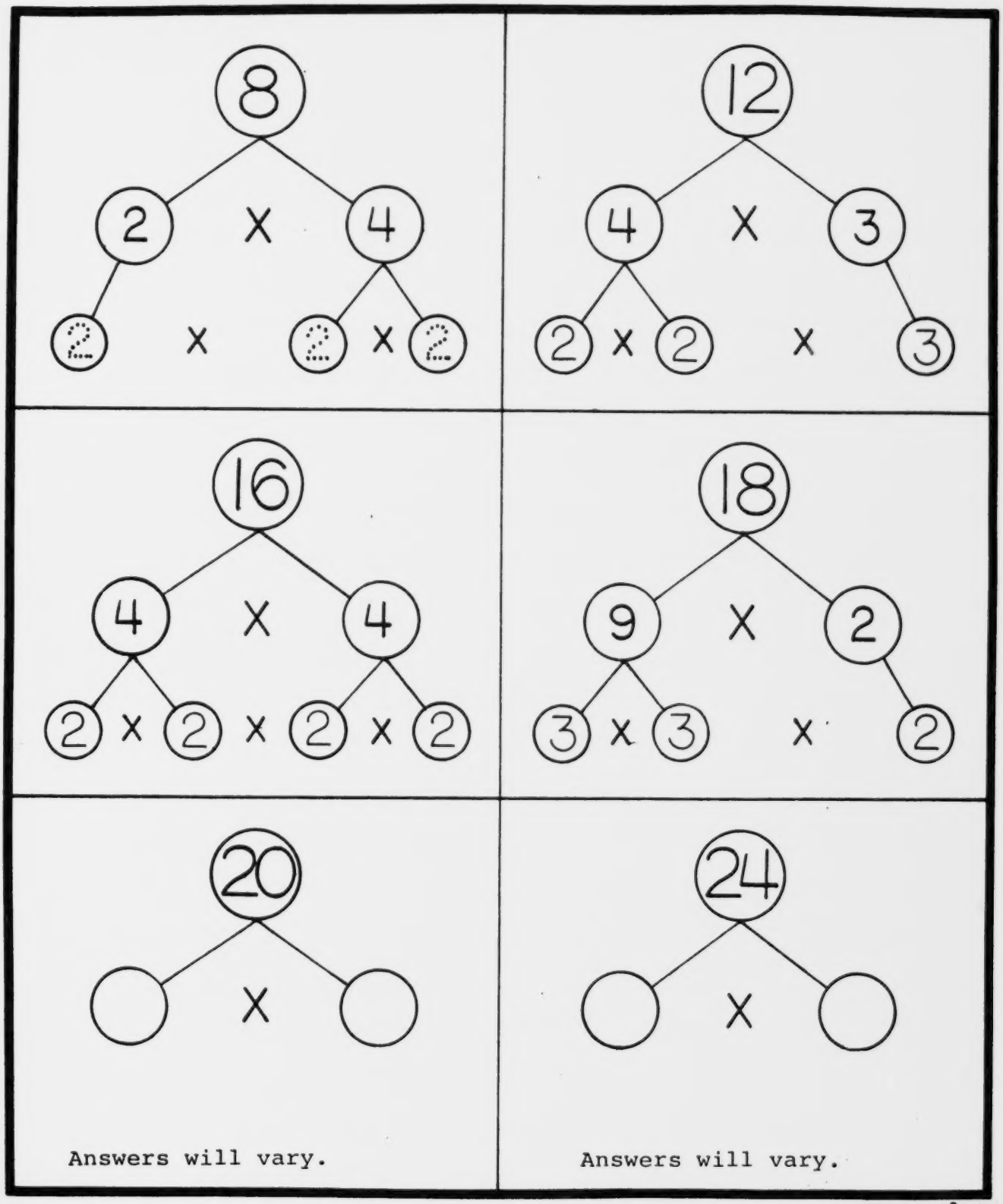
18 is a composite number.

25 is a composite number.

P.O. 4.01.05.04

NAME: _____ CLASS: _____ DATE: _____

Rename each number as a product of its primes. Do not use 1 as a factor.



Answers will vary.

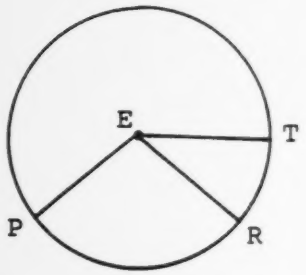
Answers will vary.

P.O. 4.09.03.01-.02

NAME: _____ CLASS: _____ DATE: _____

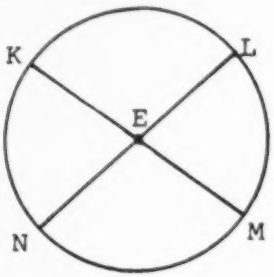
Follow the directions below.

1. In each circle below, point E is the center. Name each line segment that is a radius.



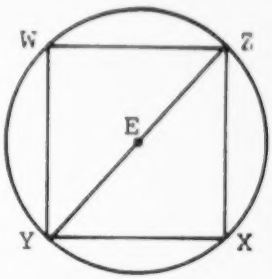
EP ER ET

radii



EK EL EM EN

radii

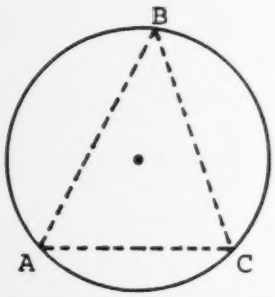


EY EZ

radii

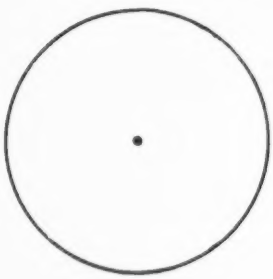
2. Draw a different shape inside each circle using only chords.

Answers will vary.



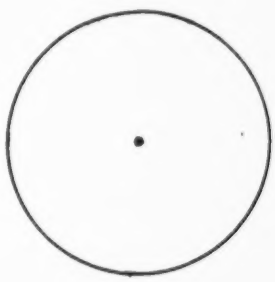
AB AC BC

chords



_____

chords



_____

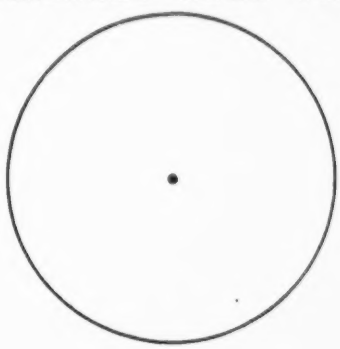
chords

3. Draw 4 radii in the circle below.

Answers will vary.

4. Draw 2 chords in the circle below.

Answers will vary.

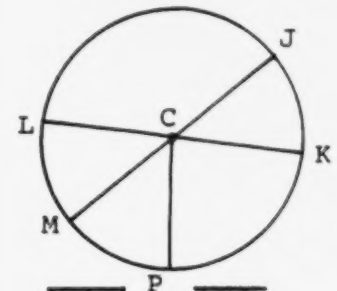


P.O. 4.09.03.02-.03

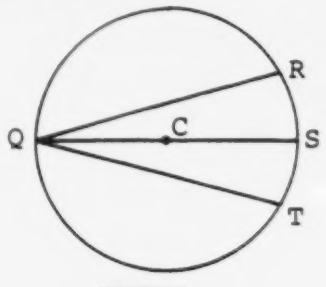
NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

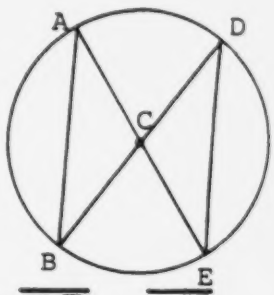
1. In each circle below, point C is the center. Name each line segment that is a diameter.



$\overline{MJ}$ $\overline{KL}$

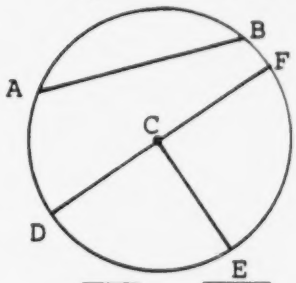


$\overline{QS}$

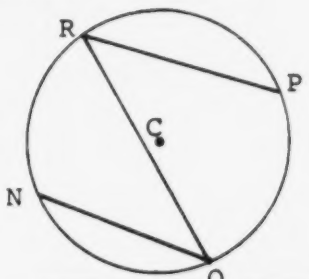


$\overline{BD}$ $\overline{AE}$

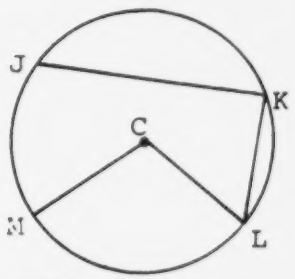
2. In each circle below, point C is the center. Name each line segment that is a chord.



$\overline{AB}$ $\overline{DF}$



$\overline{RP}$ $\overline{RO}$ $\overline{NO}$



$\overline{JK}$ $\overline{KL}$

3. Complete each sentence.

a. If the radius of a circle is 6 cm, the diameter is 12 cm.

b. If the radius of a circle is 10 cm, the diameter is 20 cm.

c. If the diameter of a circle is 18 cm, the radius is 9 cm.

d. If the diameter of a circle is 14 cm, the radius is 7 cm.

Do you remember? For each fraction below, write an equivalent decimal.

$\frac{8}{10} = 0.8$ $\frac{42}{100} = 0.42$ $\frac{78}{100} = 0.78$ $\frac{9}{100} = 0.09$

P.O. 4.09.04.01-.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Help find the definition of a polygon by crossing out the wrong word.

A polygon is a simple (closed / ~~open~~) figure with (~~two~~ / three) or (more / ~~less~~) straight sides.

Which of the figures below are polygons? Write Yes or No.

Yes No Yes No No Yes Yes No Yes

List 3 things you see in the classroom and 3 things you see at home which suggest the figure of a polygon.

Answers will vary.

	CLASSROOM OBJECT	CLASSROOM POLYGON	HOME OBJECT	HOME POLYGON
1.	window pane	rectangle	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____

CHALLENGE! Can you find the missing addends?

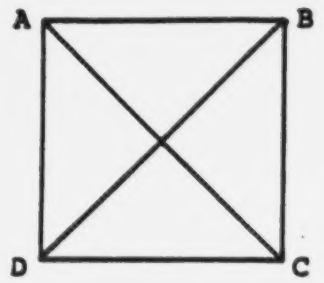
344	675	438	593	406
+ 271	+ 139	+ 438	+ 239	+ 295
615	814	876	832	701

100

P.O. 4.09.04.03

NAME: _____ CLASS: _____ DATE: _____

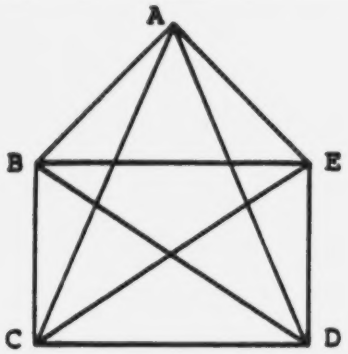
Write the number of diagonals in each figure. Then write the names of each diagonal on the line below the figure.



Given: Polygon ABCD

Number of Diagonals 2

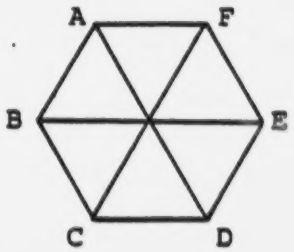
Names of Diagonals $\overline{AC}$ $\overline{BD}$



Given: Polygon ABCDE

Number of Diagonals 5

Names of Diagonals $\overline{AD}, \overline{AC}, \overline{BD}, \overline{EC}, \overline{BE}$

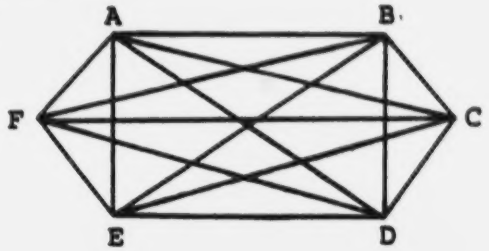


Given: Polygon ABCDEF

Number of Diagonals 3

Names of Diagonals $\overline{AD}, \overline{CF}, \overline{BE}$

CHALLENGE!



Given: Polygon ABCDEF

Number of Diagonals 9

Names of Diagonals $\overline{AC}, \overline{AD}, \overline{AE}$ $\overline{BD}, \overline{BE}, \overline{BF}$ $\overline{CE}, \overline{CF}, \overline{DF}$

SHARPENING YOUR SKILLS

Units 34, 35, 36

Name: _____ **Class:** _____ **Date:** _____

1. A number with only two factors, 1 and itself, is called a prime.

2. Which of the following is a prime number?

   (a) 16 ● 7

   (b) 12 (d) Not Here

3. Draw a ring around the prime numbers.

   (2), (3), 4, (5), 6, (7), 8, 9, 10, (11), 12

4. Name two prime numbers between 20 and 30.

   23 29

5. Which of the following is a composite number?

   (e) 5 (g) 11

   ● 12 (h) Not Here

6. $20 = 5 \times 2 \times \square$

   (a) 10 ● 2

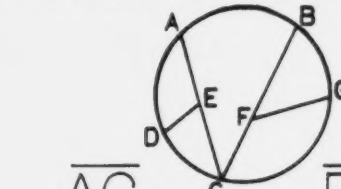
   (b) 5 (d) Not Here

7. Which circle shows a radius?

   ● (g)

   (f) (h) Not Here

8. Name the chords of this circle.



$\overline{AC}$ $\overline{BC}$

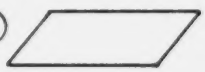
9. Which circle shows a diameter?

   (a) (c)

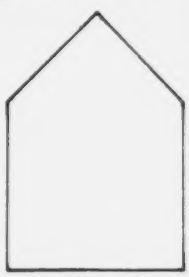
   (b) ● Not Here

10. Which of the following is not a polygon?

    ● (g)

    (f) (h) 

11. Draw a diagonal of this polygon.



Answers will vary.

P.O. 4.02.02.01

NAME: _____ CLASS: _____ DATE: _____

Add and check. Find each answer in the code boxes and write the code letter above the example letter at the bottom of the page to solve the riddle.

If 10 dragons are a clan and 20 dragons are a herd, what are 30 and 40?

Code

76,921	94,406	35,813	127,703	$889.21	$780.22
E	N	S	T	V	Y

① 12,345 + 23,468 = 35,813

② 60,132 + 16,789 = 76,921

③ $333.98 + 555.23 = $889.21

④ 28,450 + 48,471 = 76,921

⑤ 35,425 + 46,619 + 12,362 = 94,406

⑥ 73,628 + 54,075 = 127,703

⑦ $428.56 + 246.98 + 104.68 = 780.22

S	E	V	E	N	T	Y
①	②	③	④	⑤	⑥	⑦

P.O. 4.02.02.02

NAME: _____ CLASS: _____ DATE: _____

Solve each problem and check.

1. Our school district had three deliveries of pencils last year. 15,238 pencils were delivered in January, 22,465 in May and 18,562 in September. How many pencils were delivered last year? 56,265 pencils	**solve**	**check**
2. Mr. and Mrs. Smith bought new furniture for their apartment. They bought a bookcase for $117.50, a dining table for $385.50, and a couch for $399.99. How much did they spend in all? $902.99	**solve**	**check**
3. There were 11,281 spectators at the baseball game on Friday, 16,060 spectators on Saturday, and 10,420 spectators on Sunday. How many spectators were there during the 3 days? 37,761 spectators	**solve**	**check**
4. On one day 42,516 people visited Disney World in Orlando, Florida. On another day, 39,246 people visited Disney World. How many people visited during the 2 days? 81,762 people	**solve**	**check**

Do you remember?

Max placed 3 red blocks, 4 blue blocks, and 1 green block in a bag. If he picks a block out of the bag without looking, what is the probability that he will pick a red block?

The probablity of picking a red block is $\frac{3}{8}$.

P.O. 4.03.02.01 & .03

NAME: _____ CLASS: _____ DATE: _____

Solve and check.

① 613 73,109 -56,107 17,002 check 17,002 +56,107 73,109	② 94,949 -12,843 82,106 check 82,106 +12,843 94,949
③ 47,796 -28,615 19,181 check 19,181 +28,615 47,796	④ 89,242 -68,100 21,142 check 21,142 +68,100 89,242
⑤ 94,949 - 5,843 89,106 check 89,106 + 5,843 94,949	⑥ 78,343 -69,211 9,132 check 9,132 +69,211 78,343
⑦ 82,727 -14,555 68,172 check 68,172 +14,555 82,727	⑧ 77,284 - 148 77,136 check 77,136 + 148 77,284
⑨ 98,343 -74,211 24,132 check 24,132 +74,211 98,343	⑩ 79,353 -58,211 21,142 check 21,142 +58,211 79,353

⑪ After the Girl Scout cookie sale, Troop 207 had $532.90 and Troop 142 had $629.45. How much more money did Troop 142 have than Troop 207 after the cookie sale?

$96.55

P.O. 4.03.02.02-.03

NAME: _____ CLASS: _____ DATE: _____

Solve and check.

① **solve** 80,000 - 1,383 78,617 **check** 78,617 + 1,383 80,000	② **solve** 90,000 - 9,383 80,167 **check** 80,617 + 9,383 90,000
③ **solve** 10,000 - 754 9,246 **check** 9,246 + 754 10,000	④ **solve** 20,000 - 4,084 15,916 **check** 15,916 + 4,084 20,000
⑤ **solve** 30,000 - 9,995 20,005 **check** 20,005 + 9,995 30,000	⑥ **solve** 50,000 -17,681 32,319 **check** 32,319 +17,681 50,000
⑦ **solve** $400.00 - 36.88 $363.12 **check** $363.12 + 36.88 $400.00	⑧ **solve** $700.00 -148.75 $551.25 **check** $551.25 + 148.75 $700.00

⑨ Ms. Dalton had $600.00 in the bank. She took $128.85 out of the bank to buy a new set of dishes. How much money does she have left in the bank?

$471.15 left in the bank

P.O. 4.03.02.03

NAME: _____ CLASS: _____ DATE: _____

Solve each problem and check.

	solve	check
1. A police force has 18,630 members. If 3,557 are women, how many members of the police force are men? 15,073 members		
2. The letter carriers in a local Post Office delivered 24,275 letters during the first week of November. During the second week, they delivered 20,684 letters. How many more letters did they deliver during the first week than the second week? 3,591 letters	solve	check
3. In 1984, there were 45,291 teachers in a large city. In 1985, that city had 51,384 teachers. How many more teachers were there in 1985 than in 1984? 6,093 teachers	solve	check
4. A fire department had 28,807 fire fighters. How many fire fighters will they have if that amount decreases by 1,489? 27,318 fire fighters	solve	check

Do you remember?

Complete each pair of equivalent fractions.

$\frac{1}{5} = \frac{3}{\boxed{15}}$ $\frac{1}{2} = \frac{\boxed{4}}{8}$ $\frac{3}{4} = \frac{9}{\boxed{12}}$

SHARPENING YOUR SKILLS

Units 37, 38

Name: _____ **Class:** _____ **Date:** _____

1. What digit belongs in the box?

$$\begin{array}{r} 27,374 \\ +\ 61,\square 78 \\ \hline 88,552 \end{array}$$

(a) 2
(b) 8
● 1
(d) Not Here

2.
$$\begin{array}{r} 87,324 \\ -56,832 \end{array}$$

(e) 144,156
● 30,492
(f) 31,523
(h) Not Here

3. Solve.

$$\begin{array}{r} 17,195 \\ +26,836 \\ \hline 44,031 \end{array}$$

4. The Sports Arena holds 18,367 people. If the Sports Arena is filled on Saturday night and Sunday, what will the attendance be for the 2 days?

36,734 people

5. Solve and check.

$$\begin{array}{r} 75,825 \\ -36,544 \\ \hline 39,281 \end{array}$$

$$\begin{array}{r} 39,281 \\ 36,544 \\ \hline 75,825 \end{array}$$

6.
$257.34 + $128.35 + $268.89 = 65458

(a) $653.58
(c) $654.48
● $654.58
(d) Not Here

7. 75,817 - 36,389 = ☐

● 39,428
(g) 112,206
(f) 39,488
(h) Not Here

8. The coat Mr. Carlton wanted to buy cost $129.00. The clerk told him the coat was on sale for $35.99 less than the original price. What was the reduced price of the coat?

The reduced price was $93.01.

P.O. 4.06.05.01-.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

1. Place a ring around all the improper fractions.
   Place a box around all the mixed numbers.

$\frac{8}{5}$ 3 $7\frac{1}{2}$ $\frac{4}{4}$ $\frac{9}{3}$ $6\frac{1}{2}$ 5

$\frac{4}{3}$ 2 $3\frac{1}{5}$ $\frac{7}{3}$ $\frac{9}{10}$ $5\frac{1}{3}$

2. Name each shaded amount as an improper fraction.

A. = $\frac{5}{2}$

B. = $\frac{11}{4}$

C. = $\frac{10}{3}$

3. Rename each improper fraction as a mixed number.

A. $\frac{4}{3} = 1\frac{1}{3}$

B. $\frac{8}{5} = 1\frac{3}{5}$

C. $\frac{11}{2} = 5\frac{1}{2}$

D. $\frac{13}{6} = 2\frac{1}{6}$

E. $\frac{9}{4} = 2\frac{1}{4}$

F. $\frac{7}{2} = 3\frac{1}{2}$

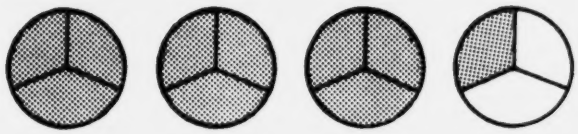
P.O. 4.06.05.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

1. Name each shaded amount as a mixed number or a whole number and as an improper fraction.

A. = $1\frac{2}{5}$ or $\frac{7}{5}$

B.  = $3\frac{1}{3}$ or $\frac{10}{3}$

C. = 5 or $\frac{10}{2}$

2. Rename each mixed number as an improper fraction.

A. $2\frac{1}{3} = \frac{7}{3}$

B. $4\frac{1}{2} = \frac{9}{2}$

C. $3\frac{1}{4} = \frac{13}{4}$

D. $6\frac{1}{3} = \frac{19}{3}$

E. $4\frac{1}{3} = \frac{13}{3}$

F. $1\frac{1}{10} = \frac{11}{10}$

G. $2\frac{3}{5} = \frac{13}{5}$

H. $5\frac{1}{4} = \frac{21}{4}$

Do you remember?

The Burger Barn sold 25 chocolate shakes on Monday, 33 chocolate shakes on Tuesday, and 38 chocolate shakes on Wednesday. Find the average number of chocolate shakes sold each day.

32 chocolate shakes

Solve

P.O. 4.06.06.01-.02

NAME: _____ CLASS: _____ DATE: _____

Complete each example. Use the code to discover the secret message.

① $3\frac{1}{5} + 2\frac{1}{5} = 5\frac{2}{5}$

② $3\frac{4}{6} - 2\frac{2}{6} = 1\frac{2}{6}$

③ $9\frac{3}{4} - 1\frac{1}{4} = 8\frac{2}{4}$

④ $10\frac{5}{6} - 9\frac{3}{6} = 1\frac{2}{6}$

⑤ $5\frac{1}{8} + 2\frac{3}{8} = 7\frac{4}{8}$

⑥ $7\frac{3}{3} - 4\frac{1}{3} = 3\frac{2}{3}$

⑦ $2\frac{2}{5} + 4\frac{1}{5} = 6\frac{3}{5}$

⑧ $8\frac{8}{9} - 6\frac{4}{9} = 2\frac{4}{9}$

⑨ $1\frac{1}{3} + 2\frac{1}{3} = 3\frac{2}{3}$

⑩ $3\frac{1}{4} + 5\frac{1}{4} = 8\frac{2}{4}$

⑪ $8\frac{9}{10} - 4\frac{1}{10} = 4\frac{8}{10}$

⑫ $1\frac{3}{9} + 1\frac{1}{9} = 2\frac{4}{9}$

⑬ $3\frac{4}{12} + 4\frac{6}{12} = 7\frac{10}{12}$

⑭ $9\frac{6}{7} - 2\frac{1}{7} = 7\frac{5}{7}$

D	O	Y	O	U	R	V	E	R	Y	B	E	S	T
1	2	3	4	5	6	7	8	9	10	11	12	13	14

$7\frac{4}{8}$	$8\frac{2}{4}$	$4\frac{8}{10}$	$6\frac{3}{5}$	$3\frac{2}{3}$	$7\frac{5}{7}$	$5\frac{2}{5}$	$7\frac{10}{12}$	$2\frac{4}{9}$	$1\frac{2}{6}$
U	Y	B	V	R	T	D	S	E	O

P.O. 4.06.06.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

A. Use the chart to solve each problem below.

Time Spent at Sports

Name	Sport	Hours Spent
Ron	Baseball	$3\frac{1}{6}$ hours
Jack	Soccer	$6\frac{5}{6}$ hours
Mel	Football	$2\frac{3}{6}$ hours
Laura	Basketball	$4\frac{1}{6}$ hours
Jean	Handball	$5\frac{2}{6}$ hours

1. How many hours did Laura and Ron spend playing ball?

   $7\frac{2}{6}$ hours

2. How many more hours did Jack play ball than Mel?

   $4\frac{2}{6}$ hours

3. How many hours did both Jean and Laura play ball?

   $9\frac{3}{6}$ hours

4. What is the difference between the time Jack played and the time Jean played?

   $1\frac{3}{6}$ hours

5. How much more time did Jean spend playing ball than Ron did?

   $2\frac{1}{6}$ hours

B. Solve each story problem.

1. Cindy walked $4\frac{3}{5}$ miles on Monday. She walked only $1\frac{1}{5}$ miles on Tuesday. How many more miles did she walk on Monday?

   $3\frac{2}{5}$ miles

2. Mother bought $7\frac{5}{8}$ yards of material for my dress. She bought $4\frac{2}{8}$ yards of material for my sister's dress. How much material did she buy in all?

   $11\frac{7}{8}$ yards

P.O. 4.10.03.01

NAME:_____ CLASS:_____ DATE:_____

Complete the table and use it to answer the problems below.

1 cup	=	8 ounces
1 pint	=	16 ounces
1 quart	=	32 ounces

1. Jane's mother used 5 cups of water to make lemonade. How many ounces of water did she use?

   40 oz.

2. If a bottle contains 1 pint and 8 ounces of juice, how many ounces does it contain?

   24 oz.

3. How many ounces are in 1 quart and 1 pint of milk in all?

   48 oz.

4. Cindy needs to measure 3 pints of fruit juice. Her measuring cup only measures ounces. How many ounces does Cindy need to measure?

   48 oz.

5. How many ounces are in 2 quarts of milk?

   64 oz.

6. Mr. Belsen bought 1 quart and 4 ounces of soda. How many ounces of soda did he buy?

   36 oz.

Do you remember?

Rewrite each group of decimals in order from least to greatest.

a. 2.7, 1.5, 2.9 — 1.5, 2.7, 2.9

b. 4.6, 4.9, 4.7 — 4.6, 4.7, 4.9

c. 5.21, 5.39, 5.1 — 5.1, 5.21, 5.39

P.O. 4.10.03.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

1. Complete the chart.

Gallons	1	2	3	4	5
Quarts	4	8	12	16	20

2. Complete the chart.

Cups	2	4	6	8	10
Pints	1	2	3	4	5

3. Write the missing numbers.

4 c. = 2 pt.

8 c. = 2 qt.

8 c. = 4 pt.

6 pt. = 3 qt.

2 gal. = 8 qt.

4 gal. = 16 qt.

2 qt. = 8 c.

6 pt. = 12 c.

4. Bobby watered his plants with 2 gallons of water. He only had a pint container. How many times did he fill it?

2 gallons = 16 pints

He filled the container 16 times.

5. Maggie has 3 quarts of milk. How many one cup containers can she fill?

She can fill 12 one cup containers.

CHALLENGE!

3 quarts + 3 pints + 3 cups = 168 ounces

SHARPENING YOUR SKILLS

Units 39, 40, 41

Name: _____ Class: _____ Date: _____

1. $\frac{11}{5} = \square$

(a) $11\frac{1}{5}$ ● $2\frac{1}{5}$

(b) $2\frac{1}{2}$ (d) Not Here

2. $\frac{7}{3} = \square$

● $2\frac{1}{3}$ (g) $2\frac{3}{7}$

(f) $7\frac{1}{3}$ (h) Not Here

3. $4\frac{1}{2} = \square$

(a) $\frac{9}{4}$ (c) $\frac{4}{2}$

● $\frac{9}{2}$ (d) Not Here

4. $3\frac{4}{5} = \square$

(e) $\frac{15}{5}$ (g) $\frac{12}{5}$

(f) $\frac{19}{4}$ ● Not Here

5. Add.

$$\begin{array}{r} 2\frac{3}{5} \\ +4\frac{1}{5} \\ \hline 6\frac{4}{5} \end{array}$$

6. Find the sum.

$$\begin{array}{r} 3\frac{1}{8} \\ +6\frac{5}{8} \\ \hline 9\frac{6}{8} \end{array}$$

7. Find the difference.

$$\begin{array}{r} 5\frac{7}{8} \\ -3\frac{2}{8} \\ \hline 2\frac{5}{8} \end{array}$$

8. Joan's recipe for cookies called for $2\frac{3}{4}$ cups of sugar. Philip's recipe needed $1\frac{2}{4}$ cups of sugar . How much more sugar did Joan's recipe need than Philip's?

(a) $1\frac{2}{4}$ cups (c) 1 cup

● $1\frac{1}{4}$ cups (d) Not Here

9. Complete the chart.

1 cup = 8 ounces

1 pint = 2 cups

1 quart = 2 pints

1 gallon = 4 quarts

10.

1 quart

1 pint

How many ounces of milk are there in all?

48 ounces

P.O. 4.09.05.01-.02

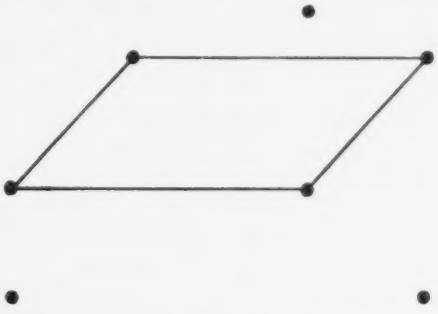
NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

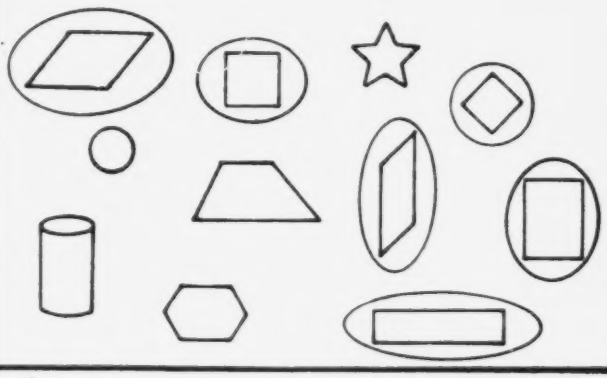
Complete the sentence below.

A parallelogram is a quadrilateral whose OPPOSITE sides are PARALLEL.

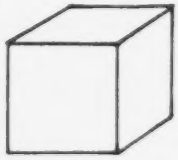
1. Connect 4 dots to make a parallelogram.



2. Circle the parallelograms.



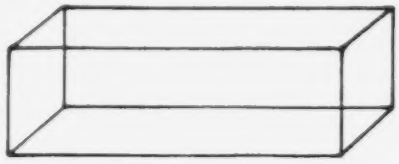
3.



How many parallelograms can you see? 3

How many are hidden? 3

4.

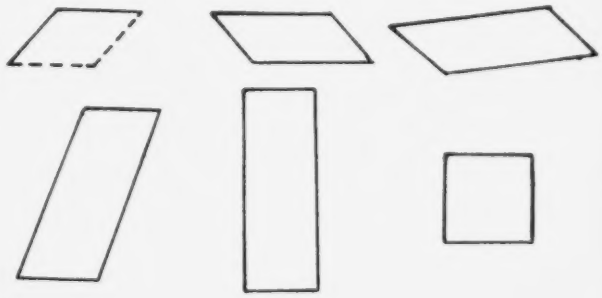


How many parallelograms can you find? 6

5. Circle the objects shaped like a parallelogram.

the sun	a lobster
(a door)	(a picture frame)
a lemon	(a desk top)
(a box top)	a bridge

6. Make each picture below into a parallelogram.



P.O. 4.10.04.01-.02

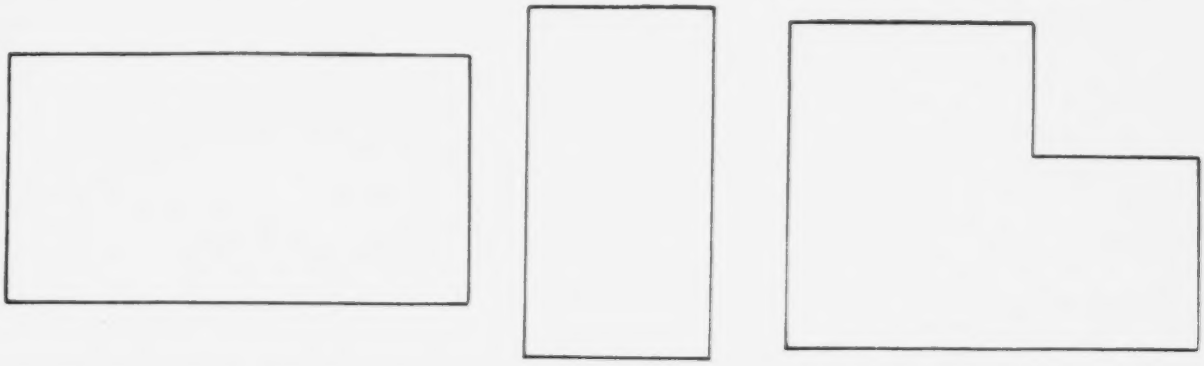
NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

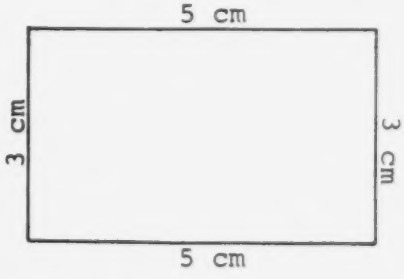
A. Draw a ring around the correct word to complete each sentence.

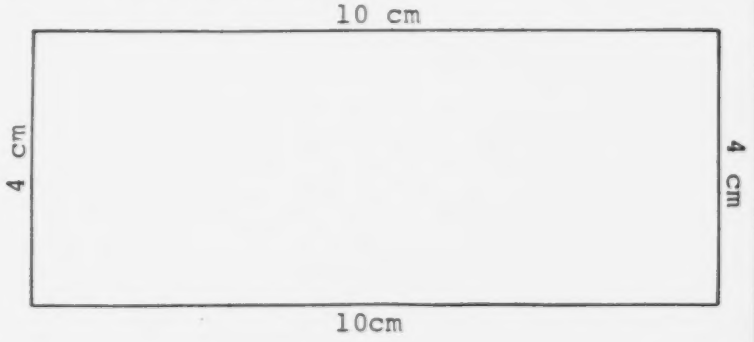
1. You can find the perimeter of a figure by [(adding) multiplying] the lengths of all the sides.
2. The distance around a figure is its [centimeters (perimeter)] .

B. Use a crayon to trace the perimeter of each figure.



C. Find the perimeter of each rectangle.





Perimeter = 5+3+5+3=16cm Perimeter = 4+10+4+10=28cm

D. Use a ruler to find the perimeter of this page.

39 in. or about 98 cm

P.O. 4.10.04.03

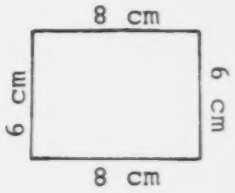
NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

A. Write the formula used to find the perimeter of a rectangle.

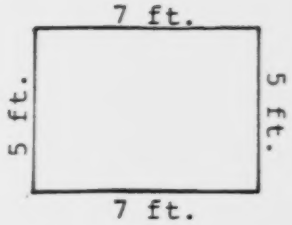
Perimeter = (2 X LENGTH) + (2 X WIDTH)

B. Use the formula to find the perimeter of each rectangle below.



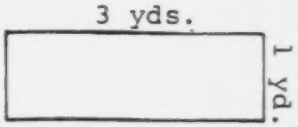
(2×6)+(2×8)=12+16=28

Perimeter = 28cm



(2×5)+(2×7)=10+14=24

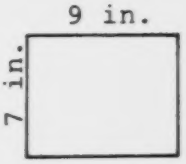
Perimeter = 24ft.



(2×3)+(2×1)=

6+2=8

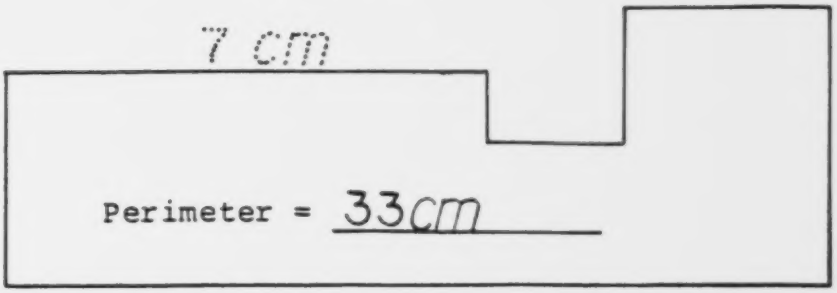
Perimeter = 8yd.



(2×9)+(2×7)=18+14=32

Perimeter = 32in.

CHALLENGE! Use a ruler to find the perimeter of the polygon below.



Perimeter = 33cm

P.O. 4.05.04.01

NAME: _____ CLASS: _____ DATE: _____

Complete each division sentence by writing the missing digit in the empty boxes.

A. $38 \div 4 = \frac{38}{4} = \frac{36 + \boxed{2}}{4} = \frac{36}{\boxed{4}} + \frac{2}{\boxed{4}} = 9 + \frac{2}{4} = \boxed{9\frac{2}{4}}$

B. $38 \div 4 = \frac{38}{4} = \frac{40 - 2}{\boxed{4}} = \frac{\boxed{40}}{4} - \frac{2}{4} = 10 - \frac{2}{4} = 9\frac{2}{4}$

C. $28 \div 3 = \frac{28}{3} = \frac{27 + \boxed{1}}{\boxed{3}} = \frac{27}{3} + \frac{\boxed{1}}{3} = 9 + \frac{1}{3} = \boxed{9\frac{1}{3}}$

D. $28 \div 3 = \frac{28}{3} = \frac{30 - \boxed{2}}{3} = \frac{30}{\boxed{3}} - \frac{\boxed{2}}{3} = 10 - \frac{\boxed{2}}{3} = 9\frac{1}{3}$

In example A, 38 is being divided into [4] equal groups. The answer shows that each of the four groups has [9] and that 2 is a remainder.

In example C, 28 is being divided into [3] groups. The answer shows that each of the [3] groups has [9] and that [1] is a remainder.

CHALLENGE! Can you use the digits 2, 3, 5, and 7, once in each box, so the product will be 3,661?

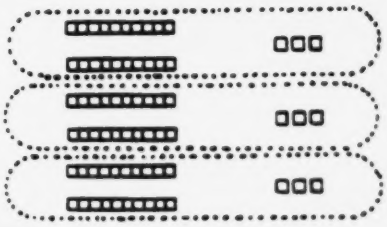
$$\begin{array}{r} \boxed{5}\boxed{2}\boxed{3} \\ \times \qquad \boxed{7} \\ \hline 3,661 \end{array}$$

P.O. 4.05.04.02

NAME: _____ CLASS: _____ DATE: _____

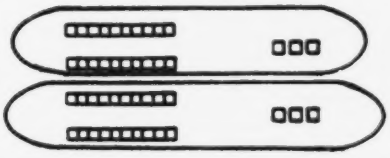
Follow the directions below.

A. Separate the squared material into 3 equal groups.



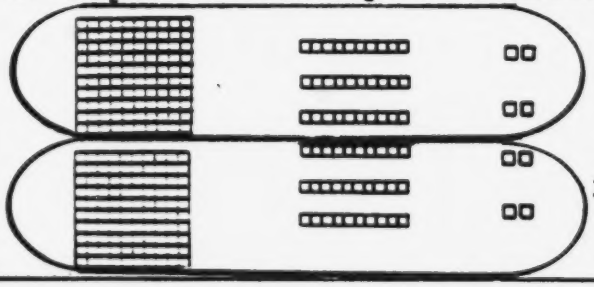
$$3\overline{)\,6 \text{ tens} + 9 \text{ ones}} \quad \frac{2 \text{ tens} + 3 \text{ ones}}{} = 23$$

B. Separate the squared material into 2 equal groups.



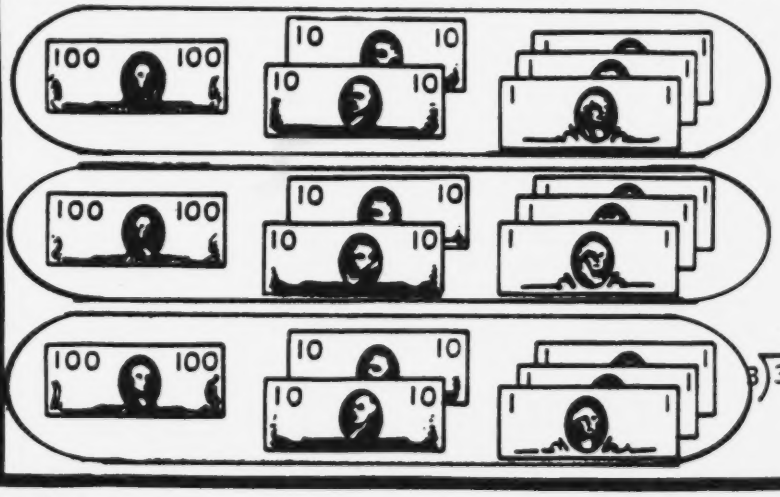
$$2\overline{)\,4 \text{ tens} + 6 \text{ ones}} \quad \frac{2 \text{ tens} + 3 \text{ ones}}{} = 23$$

C. Separate the squared material into 2 equal groups.



$$2\overline{)\,2 \text{ hundreds} + 6 \text{ tens} + 8 \text{ ones}} \quad \frac{1 \text{ hundred} + 3 \text{ tens} + 4 \text{ ones}}{} = 134$$

D. Divide the money equally among the three people.



$$3\overline{)\,3 \text{ hundreds} + 6 \text{ tens} + 9 \text{ ones}} \quad \frac{1 \text{ hundred} + 2 \text{ tens} + 3 \text{ ones}}{} = 123$$

SHARPENING YOUR SKILLS

Units 42, 43, 44

Name: _____ **Class:** _____ **Date:** _____

1. I am a quadrilateral. My opposite sides are equal and parallel. None of my angles is a right angle.

   What am I?

   (a) a rectangle
   (b) a square
   ● a parallelogram
   (d) Not Here

2. Name two more parallelograms in your classroom.

   Answers will vary.

   window pane

   _____

   _____

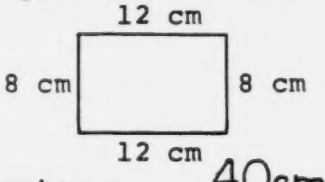
3. Write the correct words in the blanks to complete the paragraph.

   A quadrilateral is any plane closed figure with four straight sides and ___four___ angles. A quadrilateral in which both pairs of opposite sides are ___parallel___ is a parallelogram. A parallelogram with four right angles and sides which are equal is a ___square___.

4. When you add the total distance around the sides of an object or space, you are measuring its _____.

   (e) area
   (g) radius
   (f) diameter
   ● perimeter

5. Find the perimeter of the rectangle.

   Perimeter = 40cm

6. Which of the following demonstrates the distributive property of division over addition?

   (a) $\begin{array}{|l|l|}\hline 8 \times 3 = 24 & 24 \div 3 = 8 \\ \hline 3 \times 8 = 24 & 24 \div 8 = 3 \\ \hline \end{array}$

   (b) $7 \times 2 = 2 \times 7$

   ● $48 \div 5 = \frac{48}{5} = \frac{45+3}{5} = \frac{45}{5} + \frac{3}{5} = 9 + \frac{3}{5} = 9\frac{3}{5}$

   (d) Not Here

7. Divide.

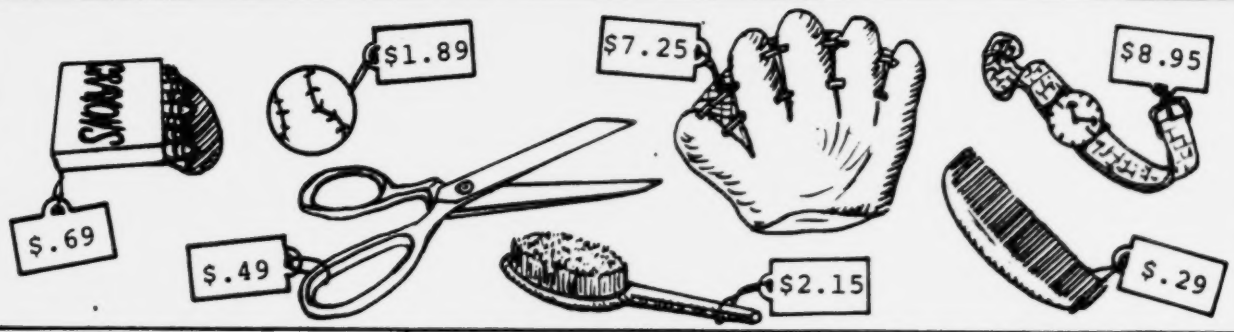
   $4\overline{)4 \text{ tens} + 8 \text{ ones}}$ = 1 ten + 2 ones = 12

   $2\overline{)8 \text{ hundreds} + 4 \text{ tens} + 2 \text{ ones}}$ = 4 hundreds + 2 tens + 1 one = 421

P.O. 4.04.03.01-.02

NAME: _____ CLASS: _____ DATE: _____

Look at the cost of each item. Follow the directions on each pad.



① Find the estimated cost of 6 balls.

$1.89 rounds to $200

x 6

Estimated Cost $1200

② Find the estimated cost of 2 watches.

Estimated Cost $18.00

③ Find the estimated cost of 3 gloves.

Estimated Cost $21.00

④ Find the exact cost of 5 combs.

$.29

x 5

Exact Cost $1.45

⑤ Find the exact cost of 3 boxes of crayons.

Exact Cost $2.07

⑥ Find the exact cost of 6 pairs of scissors.

Exact Cost $2.94

Do you remember?

Change each improper fraction to a mixed number.

$\frac{5}{4} = \boxed{1\frac{1}{4}}$ $\frac{6}{5} = \boxed{1\frac{1}{5}}$ $\frac{8}{3} = \boxed{2\frac{2}{3}}$ $\frac{9}{4} = \boxed{2\frac{1}{4}}$

P.O. 4.04.03.01 & .03

NAME: _____ CLASS: _____ DATE: _____

Estimate each product. Then find the exact product.

$6.20 x 3	rounds to	$6.00 x 3 $18.00	estimated product	$6.20 x 3 $18.60	actual product
$7.99 x 5	rounds to	$8.00 x 5 $40.00	estimated product	$7.99 x 5 $39.95	actual product
$9.12 x 4	rounds to	$9.00 x 4 $36.00	estimated product	$9.12 x 4 $36.48	actual product
$8.05 x 7	rounds to	$8.00 x 7 $56.00	estimated product	$8.05 x 7 $56.35	actual product
$5.95 x 6	rounds to	$6.00 x 6 $36.00	estimated product	$5.95 x 6 $35.70	actual product
$2.81 x 9	rounds to	$3.00 x 9 $27.00	estimated product	$2.81 x 9 $25.29	actual product

P.O. 4.04.03.04

NAME: _____ CLASS: _____ DATE: _____

Estimate the answer to each problem and then find the exact answer.

1. Ricky's scout troop saved $7.95 weekly for their annual holiday picnic.

   a. How much did they save after 4 weeks?

estimate	solve
$8.00	$7.95
x 4	x 4
$32.00	$31.80

They saved $31.80.

   b. How much did they save after 8 weeks?

estimate	solve
$8.00	$7.95
x 8	x 8
$64.00	$63.60

They saved $63.60.

   c. How much did they save after 9 weeks?

estimate	solve
$8.00	$7.95
x 9	x 9
$72.00	$71.55

They saved $71.55.

2. Ricky and his friends went to the bakery to buy cakes for the picnic. They saw this price list for cakes.

PRICE LIST FOR CAKES
COCONUT CAKE $2.10
CHOCOLATE CAKE.....$3.50
RAISIN CAKE.....$1.95

   a. How much did they spend for 3 coconut cakes?

estimate	solve
$2.00	$2.10
x 3	x 3
$6.00	$6.30

$6.30

   b. How much did they spend for 7 raisin cakes?

estimate	solve
$2.00	$1.95
x 7	x 7
$14.00	$13.65

$13.65

CHALLENGE! Find the missing digits.

$254.32	16,2[9][1]	49,8[0]3
- 48.[4]4	- 525	-22,97[2]
$[2]05[5].88	[1][5],766	[2][6],831

P.O. 4.05.05.01 & .04

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

A. Round each amount to the nearest dollar.

$8.93 rounded to the nearest dollar is $9.00.

$5.49 rounded to the nearest dollar is $5.00.

$1.62 rounded to the nearest dollar is $2.00.

$9.19 rounded to the nearest dollar is $9.00.

$6.76 rounded to the nearest dollar is $7.00.

$8.50 rounded to the nearest dollar is $9.00.

$4.02 rounded to the nearest dollar is $4.00.

$ .98 rounded to the nearest dollar is $1.00.

B. Estimate each quotient.

① $3\overline{)\$6.18}$ estimate $3\overline{)\$6.00}$ $\$2.00$

② $4\overline{)\$8.28}$ estimate $4\overline{)\$8.00}$ $\$2.00$

③ $5\overline{)\$9.85}$ estimate $5\overline{)\$10.00}$ $\$2.00$

④ $2\overline{)\$7.50}$ estimate $2\overline{)\$8.00}$ $\$4.00$

C. Solve.

Tony puts the same amount of money into his bank each week. After 3 weeks Tony had $8.79. About how much did Tony put in his bank each week?

about $3.00

P.O. 4.05.05.02 & .04

NAME: _____ CLASS: _____ DATE: _____

Solve and check.

① $5\overline{)\$.75}$ → $\$.15$

check: $\$.15 \times 5 = \$.75$

② $2\overline{)\$.30}$ → $\$.15$

check: $\$.15 \times 2 = \$.30$

③ $7\overline{)\$.49}$ → $\$.07$

check: $\$.07 \times 7 = \$.49$

④ $3\overline{)\$.69}$ → $\$.23$

check: $\$.23 \times 3 = \$.69$

⑤ $4\overline{)\$.84}$ → $\$.21$

check: $\$.21 \times 4 = \$.84$

⑥ $6\overline{)\$.96}$ → $\$.16$

check: $\$.16 \times 6 = \$.96$

⑦ If 3 pens cost $.78, how much will one pen cost?

$.26

solve check

⑧ Mr. Carson gave his two sons $.98 to share. How much did each boy get?

$.49

solve check

P.O. 4.05.05.03-.04

NAME: _____ CLASS: _____ DATE: _____

Estimate, solve, and check.

① Estimate = $5.00

solve

$$2\overline{)\$9.74} \quad \$4.87$$

check

$$\$4.87 \times 2 = \$9.74$$

② Estimate = $1.00

solve

$$5\overline{)\$4.75} \quad \$.95$$

check

$$\$.95 \times 5 = \$4.75$$

③ Estimate = $1.00

solve

$$7\overline{)\$7.49} \quad \$1.07$$

check

$$\$1.07 \times 7 = \$7.49$$

④ Estimate = $3.00

solve

$$3\overline{)\$8.85} \quad \$2.95$$

check

$$\$2.95 \times 3 = \$8.85$$

⑤ Ms. Bennet bought 5 pounds of sugar for $2.95. How much did one pound of sugar cost?

estimate: $.60

solve

$$5\overline{)\$2.95} \quad \$.59$$

check

$$\$.59 \times 5 = \$2.95$$

One pound of sugar cost $.59.

⑥ Brad had $6.27 to share among his 3 younger brothers. How much did Brad give to each of his younger brothers?

estimate: $2.00

solve

$$3\overline{)\$6.27} \quad \$2.09$$

check

$$\$2.09 \times 3 = \$6.27$$

He gave each brother $2.09.

P.O. 4.01.06.01-.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

A. Complete the chart.

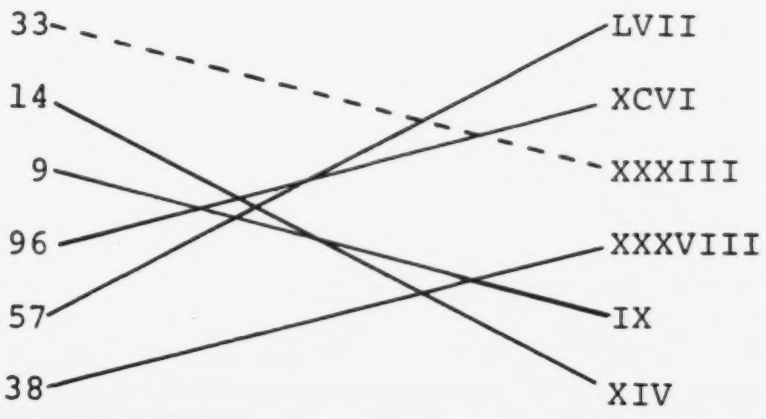
Roman Numerals

1 =	I	6 =	VI
2 =	II	7 =	VII
3 =	III	8 =	VIII
4 =	IV	9 =	IX
5 =	V	10 =	X

B. Write each of the following as Roman numerals.

24 =	XXIV	66 =	LXVI
52 =	LII	97 =	XCVII
17 =	XVII	83 =	LXXXIII
100 =	C	45 =	XLV
30 =	XXX	11 =	XI

C. Draw a line to connect each Arabic numeral with its equivalent Roman numeral.



P.O. 4.01.06.03

NAME:_____ CLASS:_____ DATE:_____

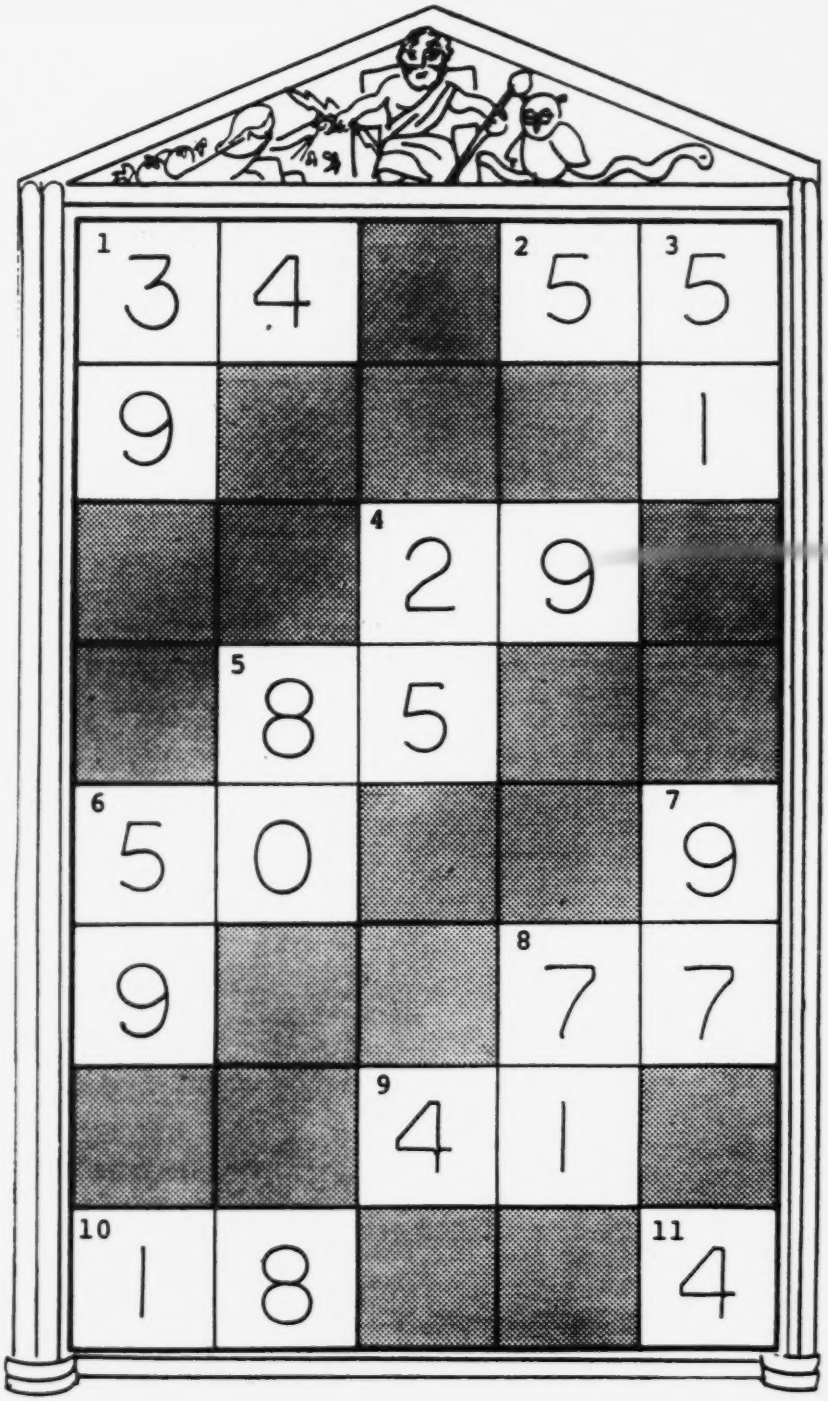
Rename Roman Numerals as Arabic Numerals.
Complete the cross number puzzle.

ACROSS

1. XXXIV
2. LV
4. XXIX
5. LXXXV
6. L
8. LXXVII
9. XLI
10. XVIII
11. IV

DOWN

1. XXXIX
3. LI
4. XXV
5. LXXX
6. LIX
7. XCVII
8. LXXI



P.O. 4.01.06.04

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

A.

Below each Roman number, write its value.

I	V	X	L	C
1	5	10	50	100

B.

Write the following as Roman numerals.

1. 135 = CXXXV
2. 200 = CC
3. 310 = CCCX
4. 140 = CXL
5. 322 = CCCXXII
6. 280 = CCLXXX
7. 399 = CCCXCIX
8. 265 = CCLXV
9. 172 = CLXXII
10. 300 = CCC
11. 105 = CV
12. 219 = CCXIX
13. 238 = CCXXXVIII
14. 333 = CCCXXXIII

Do you remember?

Complete the chart.

4 pints = 2 quarts

4 cups = 1 quart

4 quarts = 1 gallon

6 pints = 3 quarts

12 quarts = 3 gallons

SHARPENING YOUR SKILLS

Units 45, 46, 47

Name: _____ **Class:** _____ **Date:** _____

1. Round each amount to the nearest dollar.

   $3.97 rounds to $4.00.

   $2.54 rounds to $3.00.

   $8.43 rounds to $8.00.

   $5.02 rounds to $5.00.

2. Estimate the product.

$$\begin{array}{r} \$4.16 \\ \times\ \ 2 \\ \hline \end{array}$$

   (a) $8.32 (c) $6.00

   ● $8.00 (d) Not Here

3. Find the product.

$$\begin{array}{r} \$.95 \\ \times\ \ 4 \\ \hline \end{array}$$

   (e) $38.00 (g) $3.60

   ● $ 3.80 (h) Not Here

4. Multiply.

$$\begin{array}{r} \$3.54 \\ \times\ \ 4 \\ \hline \$14.16 \end{array}$$

5. John bought 6 pens at $.25 each. How much did he pay for the pens?

   (a) $1.00 (c) $1.75

   (b) $1.25 ● Not Here

6. Estimate the quotient.

$$3\overline{)\$8.75}$$

   ● $3.00 (g) $2.75

   (f) $2.00 (h) Not Here

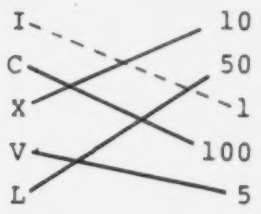
7. Find the quotient.

$$4\overline{)\$.96}\quad \text{quotient: } \$.24$$

8. Three Gobots are on sale for $7.56. How much will one Gobot cost?

   $2.52

9. Draw lines to match each Roman numeral with its correct value.



10. CIX = ☐

    (a) 110 ● 109

    (b) 101 (d) Not Here

11. Write 87 as a Roman numeral.

    87 = LXXXVII

P.O. 4.10.05.01-.02

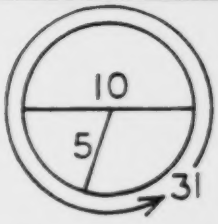
NAME: _____ CLASS: _____ DATE: _____

Answer the items below.

① Circle the objects that can help you measure a circumference.

(belt) knife (yarn)

stick (string) cube

② 

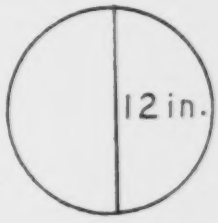
Which number represents:

radius 5 diameter 10

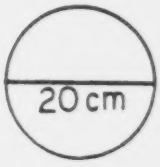
circumference 31

③ Estimate the circumference of each circle below.

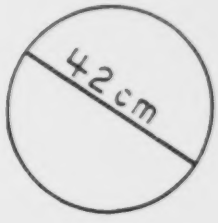
The circumference is about 24 inches.



The circumference is about 36 inches.



The circumference is about 60 cm.



The circumference is about 126 cm.

④ Judith baked a pie that measured 9 inches across. What is the distance around the outside of the pie?

The distance is about 27 inches.

⑤ Jessie jogs around a track that is 300 meters around. About how long is the diameter of the track?

The diameter is about 100 meters.

P.O. 4.10.05.03

NAME: _____ CLASS: _____ DATE: _____

Estimate the circumference of these objects.

Bicycle tire

radius = 25 cm

Estimated Circumference 150cm

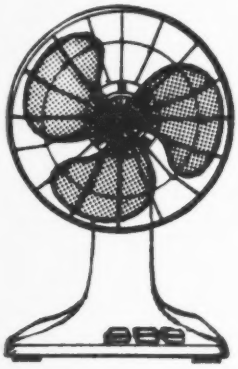
Bracelet

radius = 3 cm

Estimated Circumference 18cm

Fan

radius = 15 cm



Estimated Circumference 90cm

Ring

radius = 1 cm

Estimated Circumference 6cm

Birdbath

radius = 2 dm

Estimated Circumference 12cm

Basketball hoop

radius = 8 inches

Estimated Circumference 48in.

P.O. 4.02.03.01-.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Use the associative property of addition to complete the following number sentences.

1. $(26 + 37) + 14 = \boxed{77}$

   $26 + (37 + 14) = \boxed{77}$

   $26 + (37 + 14) = (26 + 37) + \underline{14}$

2. $(75 + 11) + 26 = \boxed{112}$

   $75 + (11 + 26) = \boxed{112}$

   $(75 + 11) + \underline{26} = 75 + (11 + 26)$

Use parentheses to show two different ways to find the sum.

3. $(478 + 816) + 975 = \boxed{2,269}$

   $478 + (816 + 975) = \boxed{2,269}$

4. $(\$.56 + \$.85) + \$.29 = \boxed{\$1.70}$

   $\$.56 + (\$.85 + \$.29) = \boxed{\$1.70}$

Find the cost in two different ways for 1 adult, 1 child, and 1 senior citizen to attend the movies. Use the associative property of addition.

5.

Movie Ticket Prices			
Adults	$3.50	Children	$1.75
Senior Citizens	$2.15		

A. $(\$3.50 + \$1.75) + \$2.15 = \$7.40$

B. $\$3.50 + (\$1.75 + \$2.15) = \$7.40$

P.O. 4.02.04.01 & .03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

A. Estimate each sum by rounding the addends to the nearest ten thousand. Complete each example and check by adding up.

estimate	solve	estimate	solve
50,000 +30,000 80,000	48,132 +27,059 75,191	30,000 + 10,000 40,000	26,919 +11,997 38,916
estimate	**solve**	**estimate**	**solve**
40,000 + 20,000 60,000	39,186 +21,216 60,402	$30,000 + 10,000 $40,000	$25,555.21 + 13,000.99 $ 38,556.20
estimate	**solve**	**estimate**	**solve**
70,000 + 30,000 100,000	68,797 +28,790 97,587	20,000 + 60,000 80,000	18,952 +56,705 75,657

B. Solve each problem.

On a giant ant farm in Africa, 21,156 ants were born in 1985. The following year, 32,899 ants were born. How many ants were born during the two years?

54,055 ants were born.

There is not enough food grown in parts of Africa to feed the people. One country air lifted 72,632 tons of food. Another country air lifted 10,038 tons of food. How much food did both countries air lift?

82,670 tons of food

Do you remember?

$4\overline{)73}$ = 18 R1 check: 18 x 4 = 72; 72 + 1 = 73

$3\overline{)684}$ = 228 check: 228 x 3 = 684

$5\overline{)561}$ = 112 R1 check: 112 x 5 = 560; 560 + 1 = 561

P.O. 4.02.04.02-.03

NAME:_____ CLASS:_____ DATE:_____

Follow the directions below.

A. Estimate each sum by rounding the addends to the greatest place value. Complete each example and check by adding up.

estimate	solve	estimate	solve
800,000 +100,000 900,000	845,132 +119,880 965,012	$3,000.00 + $6,000.00 $9,000.00	$2,654.35 + 6,148.05 $8,802.40
estimate	**solve**	**estimate**	**solve**
$4,000.00 + $2,000.00 $6,000.00	$4,035.06 + 2,113.69 $6,148.75	300,000 + 400,000 700,000	287,600 +396,730 684,330

B. Solve each problem.

Ellen and Jason Crane are buying a new car. Ellen saved $6,080.50. Jason saved $3,495.00. How much did they save together?

They saved $9575.50 together.

375,921 cars were made in Detroit. 429,882 cars were made in Japan. How many cars were made in Detroit and Japan?

805,803 cars were made in Detroit and Japan.

C. These problems are missing questions. Read the information, write a question for each, and then solve each problem.

136,688 salmon swam upstream in Colorado during 1978. During the next year, 236,510 salmon swam upstream.

Question: How many swam upstream in the two years?

Answer: 373,198 all together

A bank paid $2,411.02 in interest to John Crane and $1,009.99 in interest to Sally Crane.

Question: How much interest did the Cranes receive all together?

Answer: They received $3,421.01.

SHARPENING YOUR SKILLS

Units 48, 49, 50

Name _____ **Class:** _____ **Date:** _____

1. The distance around a circle is called the circumference.

2. If the diameter of a circle is 5 cm, the circumference of that circle is about 15 cm.

3. If the radius of a circle is 3 inches, the circumference of that circle is about 18 inches.

4. What number belongs in the box?

$(42 + 16) + 5 = 42 + (\square + 5)$

(a) 63 (c) 21

● 16 (d) Not Here

5. What number belongs in the box?

$(\square + 20) + 10 = 29 + (20 + 10)$

(e) 20 ● 29

(f) 30 (h) Not Here

6. What sum will make both number sentences true?

$(12 + 18) + 6 = \square$

$12 + (18 + 6) = \square$

● 36 (c) 30

(b) 24 (d) Not Here

7.
$$\begin{array}{r} 325{,}439 \\ +218{,}266 \end{array}$$

(e) 107,173 (g) 542,805

(f) 542,714 ● Not Here

8. Find the sum.

$$\begin{array}{r} 18{,}235 \\ 21{,}406 \\ +32{,}151 \\ \hline 71{,}792 \end{array}$$

9. Find the sum.

$$\begin{array}{r} \$1{,}256.29 \\ +\ 6{,}588.12 \\ \hline \$7{,}844.41 \end{array}$$

10. A school district recorded the following attendance for three days:

Monday - 12,404 students
Tuesday - 10,845 students
Wednesday - 11,964 students

Find the total attendance for the 3 days.

35,213 students

P.O. 4.03.03.01-.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Solve and check each example. Write the letter of each example above the answer at the bottom of the page to complete the message.

solve	check	solve	check	solve	check
300,000 − 189 299,811	299,811 + 189 300,000	88,356 − 32,196 56,160	56,160 +32,196 88,356	$500.00 − 493.88 $ 6.12	$ 6.12 +493.88 $500.00
A		T		C	
$3,000.00 − 189.50 $2,810.50	$2,810.50 + 189.50 $3,000.00	100,000 − 43,841 56,159	56,159 +43,841 100,000	$1,565.90 − 868.09 $ 697.81	$697.81 +868.09 $1,565.90
E		S		P	
91,884 −35,721 56,163	56,163 +35,721 91,884	200,000 − 18,950 181,050	181,050 + 18,950 200,000	61,328 − 5,166 56,162	56,162 + 5,166 61,328
F		R		H	

If you can read this message,

T	H	A	T	'	S
56,160	56,162	299,811	56,160		56,159

P	E	R	F	E	C	T	!
$697.81	$2,810.50	181,050	56,163	$2,810.50	$6.12	56,160	

P.O. 4.03.03.03

NAME: _____ CLASS: _____ DATE: _____

Solve the problems below. Check your work.

① Mr. Gray went grocery shopping with $100.00. He spent $84.23. How much money did he have left?

He had $15.77 left.

② A city's police force has 21,012 members. If 6,869 are women, how many are men?

14,143 are men.

③ There are 250,000 miles between the Earth and the Moon. A spaceship has already traveled 463 miles into space. How much further must it go to reach the Moon?

249,537 miles

④ People sleep an average of 28,800 seconds a night. They have dreams for about 3,945 seconds. How many seconds do people spend sleeping without dreaming?

24,855 seconds

Do you remember?

$3 \times \frac{1}{8} = \boxed{\frac{3}{8}}$ $2 \times \frac{3}{6} = \boxed{\frac{6}{6}}$ OR 1 $4 \times \frac{2}{9} = \boxed{\frac{8}{9}}$ $2 \times \frac{1}{3} = \boxed{\frac{2}{3}}$

P.O. 4.04.04.01

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Complete the charts below.

A.

X	4	40	400	4,000	40,000
2	8	80	800	8,000	80,000
4	16	160	1,600	16,000	160,000
7	28	280	2,800	28,000	280,000
8	32	320	3,200	32,000	320,000

B.

X	1	10	100	1,000	10,000
3	3	30	300	3,000	30,000
5	5	50	500	5,000	50,000
6	6	60	600	6,000	60,000
9	9	90	900	9,000	90,000

Complete each group of examples below.

C.

7 x 1 = 7

7 x 10 = 70

7 x 100 = 700

7 x 1,000 = [7,000]

7 x 10,000 = [70,000]

D.

3 x 5 = 15

3 x 50 = 150

3 x 500 = 1,500

3 x 5,000 = [15,000]

3 x 50,000 = [150,000]

E.

1,000	4,000	10,000	80,000
x 6	x 2	x 3	x 7
6,000	8,000	30,000	560,000

F.

8 x [1,000] = 8,000

5 x [10,000] = 50,000

P.O. 4.04.04.02 & .04

NAME:_____ CLASS:_____ DATE:_____

Follow the directions below.

A. Estimate the product. Then find the exact product.

1. estimate	solve	2. estimate	solve
4,000	4,322	2,000	2,303
x 2	x 2	x 3	x 3
8,000	8,644	6,000	6,909
3. estimate	**solve**	**4. estimate**	**solve**
1,000	1,241	3,000	3,012
x 2	x 2	x 3	x 3
2,000	2,482	9,000	9,036
5. estimate	**solve**	**6. estimate**	**solve**
2,000	2,021	2,000	2,122
x 4	x 4	x 2	x 2
8,000	8,084	4,000	4,244

B. Solve the problems below in two ways, using addition and using multiplication.

In 1976, the North City fire department had 2,302 firefighters. In 1986, they had 3 times as many firefighters. How many firefighters did they have in 1986?

2,302
2,302
+2,302
6,906

2,302
x 3
6,906

6,906 firefighters

A plane flew a distance of 2,120 miles from New York City to Caracas, Venezuela. The plane then flew back to New York City. Find the total mileage for the trip.

2,120
+2,120
4,240

2,120
x 2
4,240

4,240 miles

P.O. 4.04.04.03-.04

NAME:_____ CLASS:_____ DATE:_____

Follow the directions below.

A. Complete all the examples,
Write [Y] in the box if you regrouped (exchanged).
Write [N] in the box if you did not regroup (exchange).

① [N]
2,432
x 2
4,864

② [N]
4,102
x 2
8,204

③ [Y]
4,251
x 3
12,753

④ [Y]
6,215
x 4
24,860

⑤ [Y]
1,246
x 5
6,230

⑥ [N]
3,213
x 2
6,426

⑦ [Y]
3,680
x 6
22,080

⑧ [Y]
7,115
x 8
56,920

B. Solve the problems.

1. A copying machine can print 2,315 copies in 1 hour. How many copies can it print in 5 hours?

11,575 copies

2. There are 3,600 seconds in 1 hour. How many seconds are there in 4 hours?

14,400 seconds

CHALLENGE! How can the digits 2, 3, 5, 6, and 8 be arranged in the boxes below to give the greatest product? Find the product.

[6] [5] [3] [2]
X [8]
52,256

SHARPENING YOUR SKILLS

Units 51, 52

Name: _____ **Class:** _____ **Date:** _____

1. $\begin{array}{r} 700{,}000 \\ -\ 8{,}206 \\ \hline \end{array}$

(a) 691,894 (c) 692,804

● 691,794 (d) Not Here

2. Solve and check.

$\begin{array}{r} \$854.69 \\ -\ 275.89 \\ \hline \$578.80 \end{array}$ $\begin{array}{r} \$578.80 \\ +\ 275.89 \\ \hline \$854.69 \end{array}$

3. $\begin{array}{r} 3{,}857 \\ \times\ \ 3 \\ \hline \end{array}$

● 11,571 (g) 9312

(f) 924,521 (h) Not Here

4. Multiply.

$\begin{array}{r} 40{,}000 \\ \times\ \ 4 \\ \hline 160{,}000 \end{array}$

5. $\begin{array}{r} 4{,}266 \\ \times\ \ 5 \\ \hline \end{array}$

(a) 210,300 ● 21,330

(b) 21,396 (d) Not Here

6. Ms. Green paid $9,000.00 for her new car. A week later, she saw the same car on sale for $7,998.45. How much would she have saved if she had bought it on sale?

(e) $2,998.45 ● $1,001.55

(f) $1.55 (h) Not Here

7. The Sports Center can seat 16,000 fans. One night, only 6,872 fans showed up to see the hockey game. How many empty seats were there?

(a) 22,872 (c) 10,872

● 9,128 (d) Not Here

8. 1,236 students attend Greenbriar School. If every student attended school for 5 days in a row, what would the school's total attendance be for the 5 days?

(e) 1,258 (g) 8,315

(f) 103,015 ● Not Here

9. There are 1,760 yards in 1 mile. How many yards are in 4 miles?

7,040 yards

P.O. 4.05.06.01-.02

NAME: _____ CLASS: _____ DATE: _____

Solve and check.

① $3\overline{)6,909}$ → 2,303

check: 2,303 × 3 = 6,909

② $5\overline{)1,585}$ → 317

check: 317 × 5 = 1,585

③ $2\overline{)2,755}$ → 1,377 R1

check: 1,377 × 2 = 2,754; 2,754 + 1 = 2,755

④ $7\overline{)2,319}$ → 331 R2

check: 331 × 7 = 2,317; 2,317 + 2 = 2,319

⑤ solve check

Mr. Farber's hobby is stamp collecting. During the last 3 years, he collected 1,854 stamps. There are 9 stamps on each page in his album. How many pages are in his album?

206 pages

⑥ solve check

A farm in Kansas harvested 4,297 ears of corn. If 7 ears of corn are packed to a carton, how many cartons are needed?

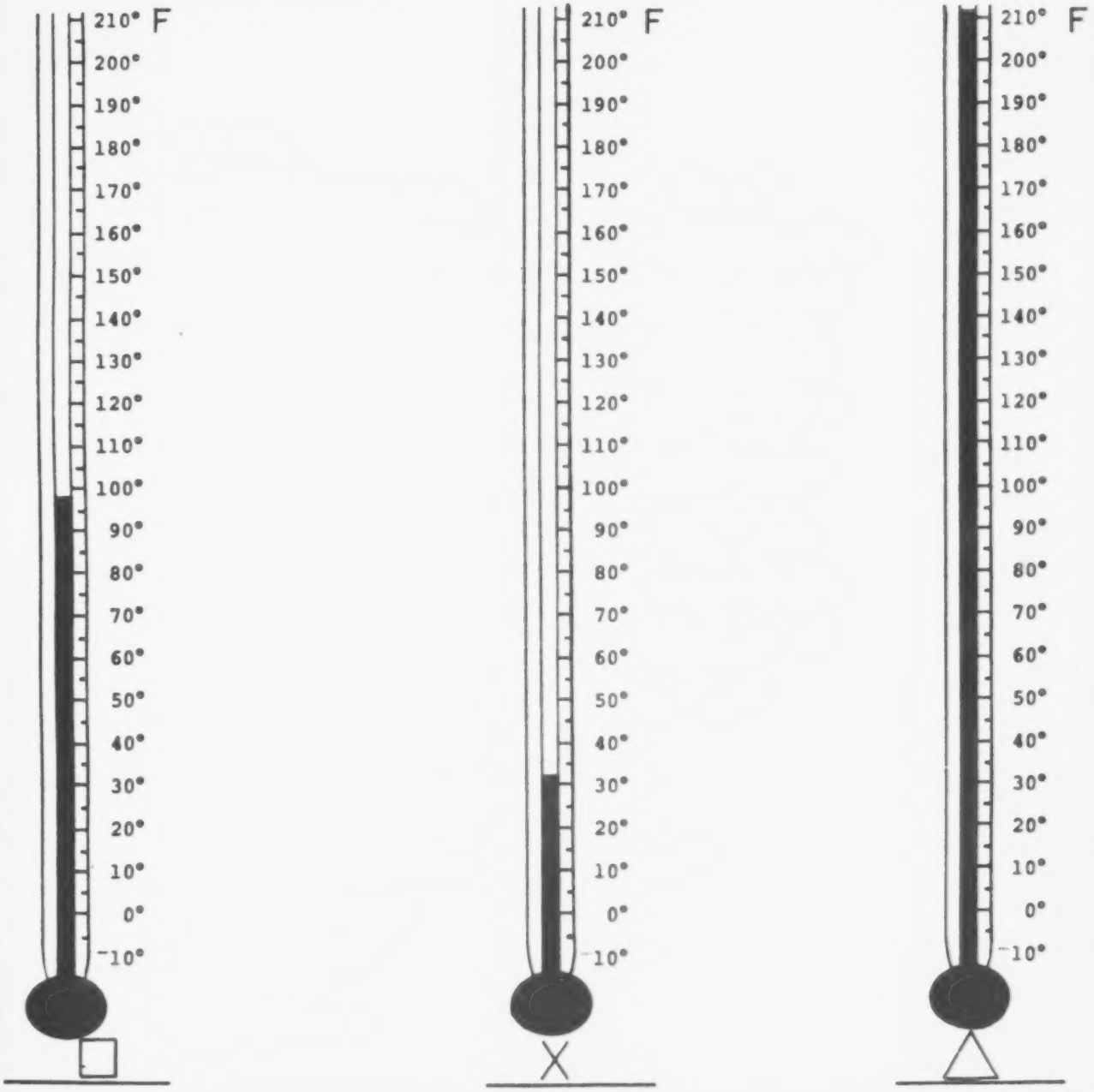
613 cartons with
6 ears of corn left over

P.O. 4.10.06.01

NAME:_____ CLASS:_____ DATE:_____

Follow the directions below.

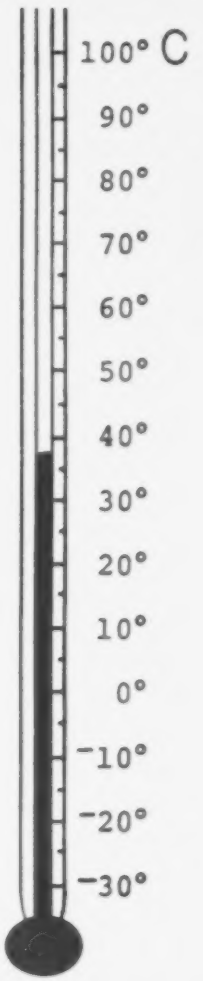
1. Place an X under the thermometer that shows the freezing point of water.
2. Place a △ under the thermometer that shows the boiling point of water.
3. Place a □ under the thermometer that shows normal body temperature.



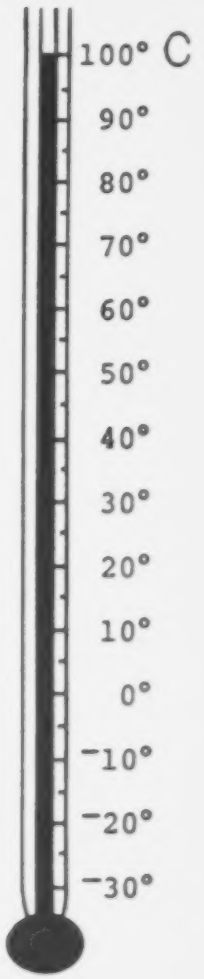
P.O. 4.10.06.02

NAME: _____ CLASS: _____ DATE: _____

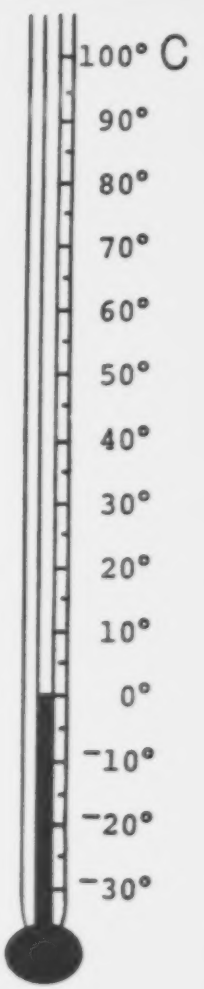
Shade each Celsius thermometer below to show the correct temperature.



Normal Body Temperature



Boiling Point of Water



Freezing Point of Water

CHALLENGE!

Draw a line to connect each temperature with the correct phrase.

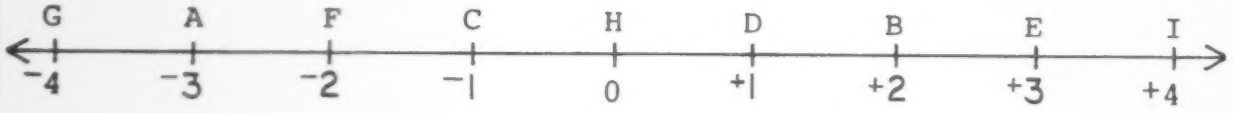
27°C	a very cold day
-8°C	a very hot day
35°C	a warm day

P.O. 4.08.01.01-.02

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Complete the number line.

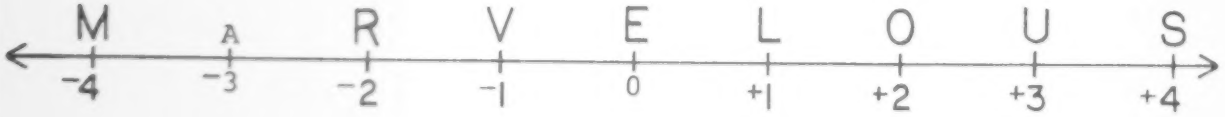


Write the value for each letter.

A = -3 C = -1 E = +3

B = +2 D = +1 F = -2

Write each letter above the number line according to the directions.



A = -3 E = 0 L = +1

S = +4 U = +3 R = -2

V = -1 M = -4 O = +2

What word do the letters spell?

MARVELOUS

Write the signed numbers below.

4 greater than zero = +4

38 greater than zero = +38

12 less than zero = -12

62 greater than zero = +62

106 to the right of zero = +106

3 to the left of zero = -3

15 to the right of zero = +15

1 less than zero = -1

87 to the left of zero = -87

32 greater than zero = +32

P.O. 4.08.01.03-.04

NAME:_____ CLASS:_____ DATE:_____

Follow the directions below.

I. Place a + on the line next to the sentences that represent positive numbers and a − on the line next to the sentences that represent negative numbers.

a. ± The temperature is 10° above 0.

b. + The football team gained 12 yards.

c. + Joe gained 7 pounds.

d. − I spent $36.00.

e. + We live 200 feet above sea level.

f. − The temperature is 5° below 0.

g. − Teddy lost 3 pounds.

h. − The lake is 100 feet below sea level.

II. Solve each problem below.

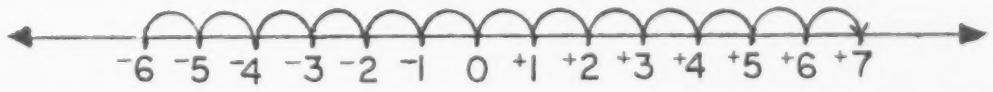
a. The temperature was 15°C. It got 10° warmer. What was the temperature then?

25°C

b. On a cold day, the temperature was −5°C. During the night the temperature dropped 7°. What was the temperature then?

−12°C

CHALLENGE! How many jumps on the number line must we make to get from −6 to +7?



Hint: Draw a number line.

13 jumps

SHARPENING YOUR SKILLS

Units 53, 54, 55

Name _____ **Class:** _____ **Date:** _____

1. $3\overline{)6,936}$ → 2,312

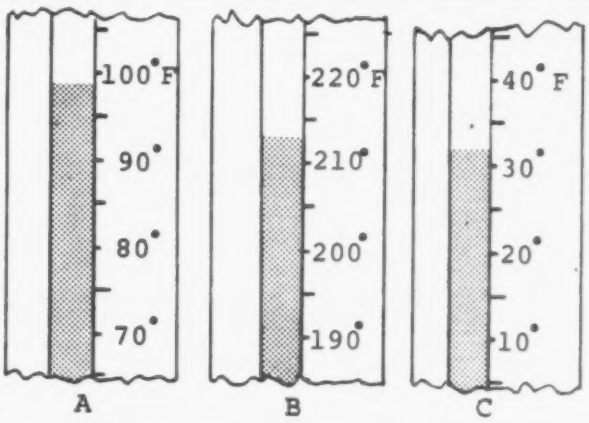
check: 2,312 × 3 = 6,936

2. A fruit drink company places 6 drinks in each pack. How many packs are needed for 8,496 drinks?

(a) 1,016 (c) 1,616

● 1,416 (d) Not Here

Use the Fahrenheit thermometers below to answer questions 3 - 5.

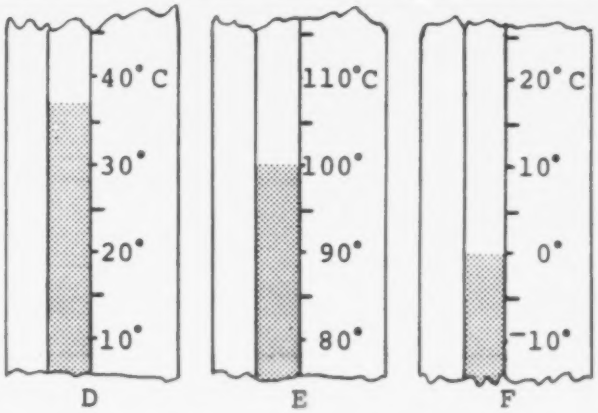


3. Which thermometer shows the temperature at which water freezes? C

4. Which thermometer shows the temperature at which water boils? B

5. Which thermometer shows normal body temperature? A

Use the Celsius thermometers below to answer questions 6 - 8.



6. Which thermometer shows the temperature at which water freezes? F

7. Which thermometer shows normal body temperature? D

8. Which thermometer shows the temperature at which water boils? E

9. Which sentence below is true?

(e) Negative numbers are greater than 0.

(f) Positive numbers are less than 0.

● $^{-}2$ is greater than $^{-}4$.

(h) Not Here

10. The daytime temperature on the Celsius thermometer was at 0°. At night, it became 2° colder. What was the temperature then?

(a) 0° C (c) 2° C

● −2° C (d) Not Here

P.O. 4.12.04.01

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

A. Show all the possible arrangements for the groups below.

1. red, blue

red, blue
blue, red

2. A, B, C

A,B,C
A,C,B
B,A,C
B,C,A
C,A,B
C,B,A

3. 3, 4, 5

3,4,5
3,5,4
4,3,5
4,5,3
5,3,4
5,4,3

4. dime, quarter

dime, quarter
quarter, dime

B. Complete the sentences below.

1. When there are 2 items to arrange, we can show 2 different arrangements.

2. When there are 3 items to arrange, we can show 6 different arrangements.

P.O. 4.12.04.02

NAME: _____ CLASS: _____ DATE: _____

Solve each problem below.

1. Theo has a red pencil, a blue pencil, and a black pencil. Show all the ways Theo can arrange these pencils on his desk.

red, blue, black
red, black, blue
blue, red, black
blue, black, red
black, red, blue
black, blue, red

2. Show all the different 3-digit numbers that can be made using the digits 3, 4, and 9.

349 439 934
394 493 943

3. Jerry picked three playing cards, a jack, a queen, and a king. Show all the different ways Jerry can arrange these cards.

jack, queen, king
jack, king, queen
queen, jack, king
queen, king, jack
king, queen, jack
king, jack, queen

CHALLENGE!

Find all the different ways the following four numbers can be arranged.

4, 3, 2, 1

How many arrangements did you find? 24

P.O. 4.13.04.01

NAME:_____ CLASS:_____ DATE:_____

Use the calendar below to answer the questions.

August						
S	M	T	W	Th	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

1. List the dates for all the Sundays this month.
August 2, 9, 16, 23, 30

What pattern do you notice?
Add 7

2. Look at the four numbers in the box. If you add each pair of numbers diagonally, what do you notice about the sums?
The sums are equal.

3. Look at the numbers in the loop. What pattern do you notice?
Add 8

4. Complete the following patterns using the calendar.

a. 2, 10, 18, 26

b. 3, 10, 17, 24, 31

c. 1, 7, 13, 19, 25, 31

d. 30, 24, 18, 12, 6

CHALLENGE!

What is the sum of all the dates on the calendar above?

496

P.O. 4.13.04.02

NAME:_____ CLASS:_____ DATE:_____

Color Loop A yellow, Loop B orange, and Loop C green. Then follow the directions below.

x	0	1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10
2	0	2	4	6	8	10	12	14	16	18	20
3	0	3	6	9	12	15	18	21	24	27	30
4	0	4	8	12	16	20	24	28	32	36	40
5	0	5	10	15	20	25	30	35	40	45	50
6	0	6	12	18	24	30	36	42	48	54	60
7	0	7	14	21	28	35	42	49	56	63	70
8	0	8	16	24	32	★	48	56	64	72	80
9	0	9	18	27	36	45	54	63	72	81	90
10	0	10	20	30	40	50	60	70	80	90	100

Loop A — yellow

Loop B — orange

Loop C — green

yellow orange green

A. Look at the pattern in Loop A. Find the same pattern in a vertical column. Draw a loop around that pattern and color it yellow.

B. Look at the pattern in Loop B. Find the same pattern in a vertical column. Draw a loop around that pattern and color it orange.

C. Look at the pattern in Loop C. Find the same pattern in a vertical column. Draw a loop around that pattern and color it green.

D. Complete this pattern 0,8,16,24,32,40,48,56,64,72,80.

E. Use a pattern to discover the product hidden by the ★.
★ = 40.
What pattern did you use? ADD 5. 35+5=40
ADD 8. 32+8=40.

F. Write a pattern of numbers which are on a diagonal.
0,1,4,9,16,25,36,49,64,81,100.

P.O. 4.06.07.01-.02

NAME: _____ CLASS: _____ DATE: _____

List the factors for each group of numbers below. List the common factor. Find the greatest common factor.

6 20

The factors of 6 are 1, 2, 3, 6.

The factors of 20 are 1, 2, 4, 5, 10, 20.

The common factors of 6 and 20 are 1, 2.

The greatest common factor of 6 and 20 is 2.

16 24

The factors of 16 are 1, 2, 4, 8, 16.

The factors of 24 are 1, 2, 3, 4, 6, 8, 12, 24.

The common factors of 16 and 24 are 1, 2, 4, 8.

The greatest common factor of 16 and 24 is 8.

12 18 24

The factors of 12 are 1, 2, 3, 4, 6, 12.

The factors of 18 are 1, 2, 3, 6, 9, 18.

The factors of 24 are 1, 2, 3, 4, 6, 8, 12, 24.

The common factors of 12, 18, and 24 are 1, 2, 3, 6.

The greatest common factor of 12, 18, and 24 is 6.

14 16 22

The factors of 14 are 1, 2, 7, 14.

The factors of 16 are 1, 2, 4, 8, 16.

The factors of 22 are 1, 2, 11, 22.

The common factors of 14, 16, and 22 are 1, 2.

The greatest common factor of 14, 16, and 22 is 2.

P.O. 4.06.07.03-.04

NAME:_____ CLASS:_____ DATE:_____

Circle the common multiples for each group of numbers below.
Write the least common multiple (LCM).

6 | 6 8 | 50

18 12 (24) (48) 15

30 (72)

26 36 32

The least common multiple of 6 and 8 is 24.

36 | 12 8 | 40

(96) 12 (24) 60 64

(48) 16 32 56 (72)

The least common multiple of 12 and 8 is 24.

12 | 2 8 4 | (64)

(24) 4 20 (40)

84

(8) (16) 26 30 70

The least common multiple of 2, 8, and 4 is 8.

(96) | 6 16 24 | 12 (48)

32 80 66

36 6 64 10 38 16

The least common multiple of 6, 16, and 24 is 48.

SHARPENING YOUR SKILLS

Units 56, 57, 58

Name _____ Class: _____ Date: _____

1. How many different numbers can be made using the digits 7 and 4?

(a) 3 (c) 6

● 2 (d) Not Here

2. How many different arrangements can be made using the letters x, y, and z?

(e) 2 ● 6

(f) 3 (h) Not Here

3.

Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18

If you add the numbers in the box diagonally, what pattern do you notice?

The sums are equal.

Draw a box around 4 other numbers. Did you notice the same thing? Yes.

4. What are the common factors of 8 and 12?

● 1,2,4 (c) 2,4,6,12

(b) 1,2,3,4 (d) Not Here

5. List all the factors of 12 and 24.

Factors of 12 = 1,2,3, 4,6,12.

Factors of 24 = 1,2,3, 4,6,8,12,24.

6. What is the greatest common factor of 10 and 15?

(e) 3 (g) 10

● 5 (h) Not Here

7. What is the greatest common factor of 8,12, and 16?

● 4 (c) 2

(b) 8 (d) Not Here

8. What is the least common multiple of 2 and 5?

(e) 2 ● 10

(f) 1 (h) Not Here

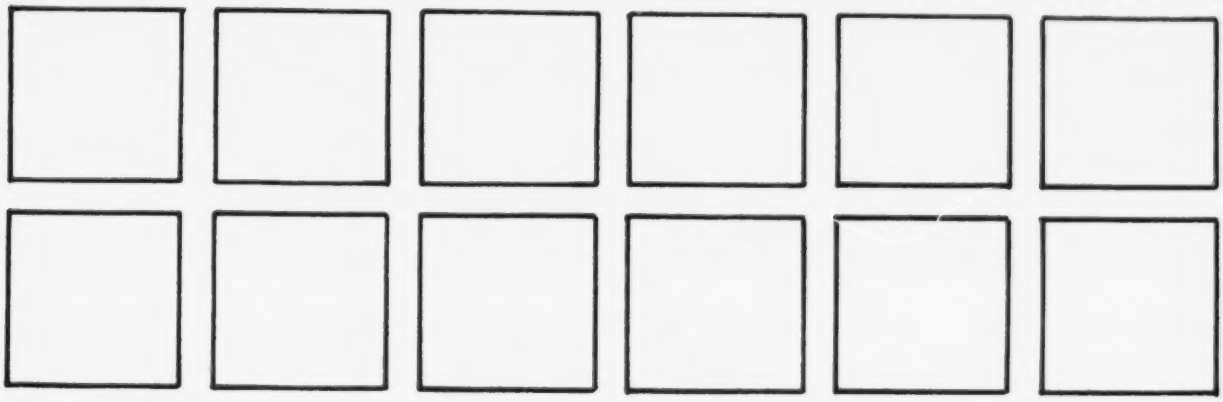
9. The least common multiple of 6 and 8 is 24.

P.O. 4.10.07.01

NAME: _____ CLASS: _____ DATE: _____

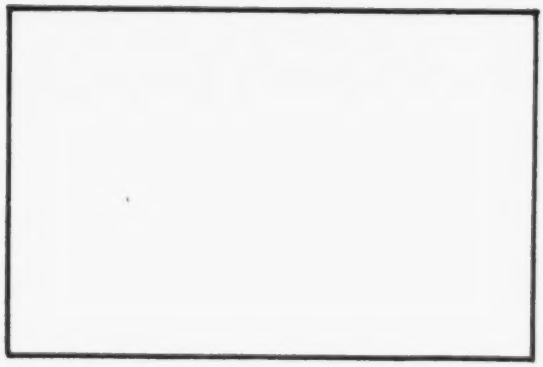
Follow the directions below.

A. Each small square is 1 square inch. Cut out each square inch.



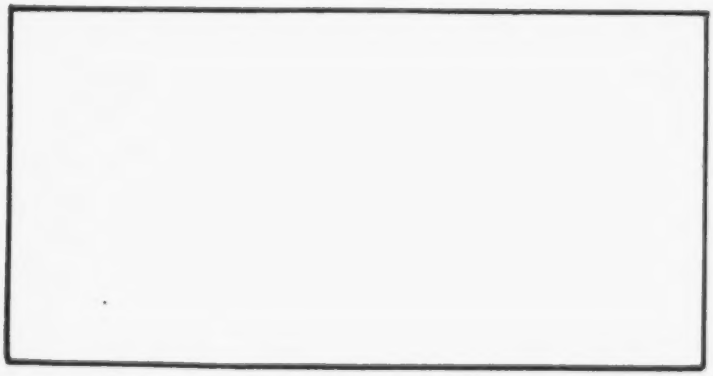
B. Use the square inches to find the area of each figure below.

1.



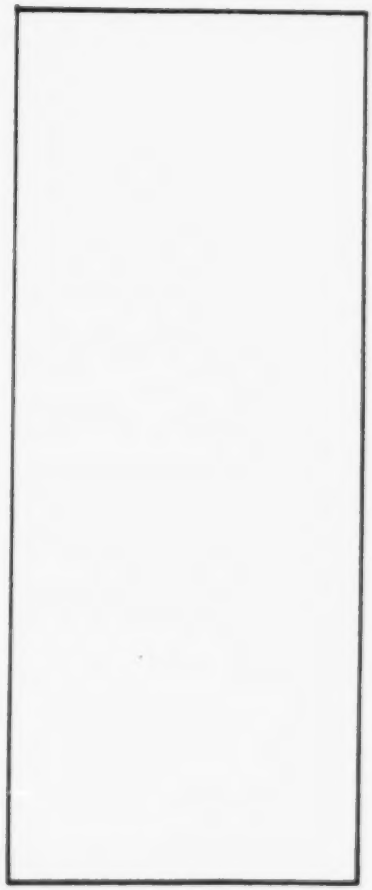
Area = 6 square inches

2.



Area = 8 square inches

3.



Area = 10 square inches

P.O. 4.10.07.02

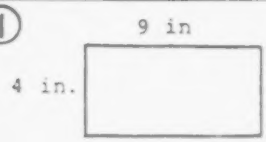
NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

A. Circle the correct words to complete the sentence below.

To find the area of a rectangle, we (add, (multiply) the length and the (width) inside).

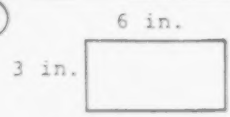
B. Use the formula to find the area of each rectangle below.

① 

Area = length x width

Area = 4 in. x 9 in.

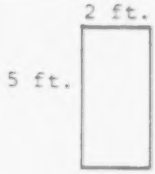
Area = 36 sq. in.

② 

Area = length x width

Area = 3 in. x 6 in.

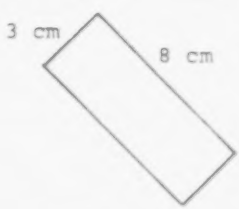
Area = 18 sq. in.

③ 

Area = length x width

Area = 5 ft. x 2 ft.

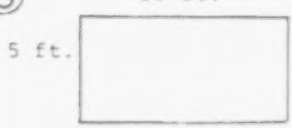
Area = 10 sq. ft.

④ 

Area = length x width

Area = 3cm x 8cm

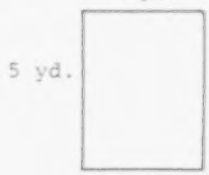
Area = 24 sq. cm

⑤ 

Area = length x width

Area = 5ft. x 10ft.

Area = 50 sq. ft.

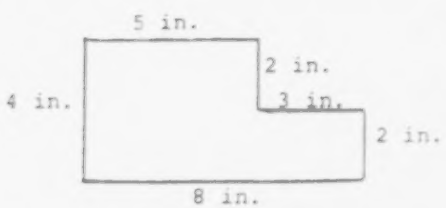
⑥ 

Area = length x width

Area = 5yd. x 4 yd.

Area = 20 sq. yd.

CHALLENGE! Can you find the area of this figure?



AREA = 26 SQ. IN.

Hint: Draw a line that will form 2 rectangles from this figure.

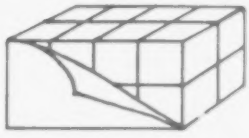
159

P.O. 4.10.08.01-.02

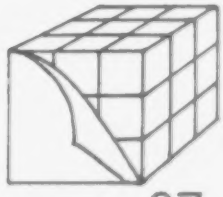
NAME:_____ CLASS:_____ DATE:_____

Follow the directions below.

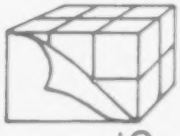
A. Count the cubes to find the volume of each rectangular prism below.

1. 

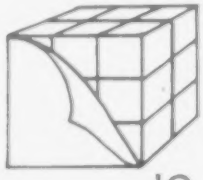
Volume = 16 cubic units

2. 

Volume = 27 cubic units

3. 

Volume = 12 cubic units

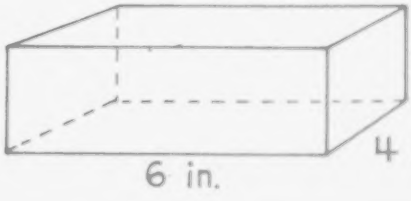
4. 

Volume = 18 cubic units

B. Complete the formula below.

Volume = length x width x height

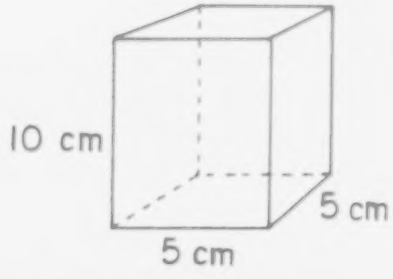
C. Use the formula to find the volume of the following rectangular prisms.



Volume = 2 in. x 4 in. x 6 in.

Volume = 48 cu. in.

Volume = 48 cu. in.



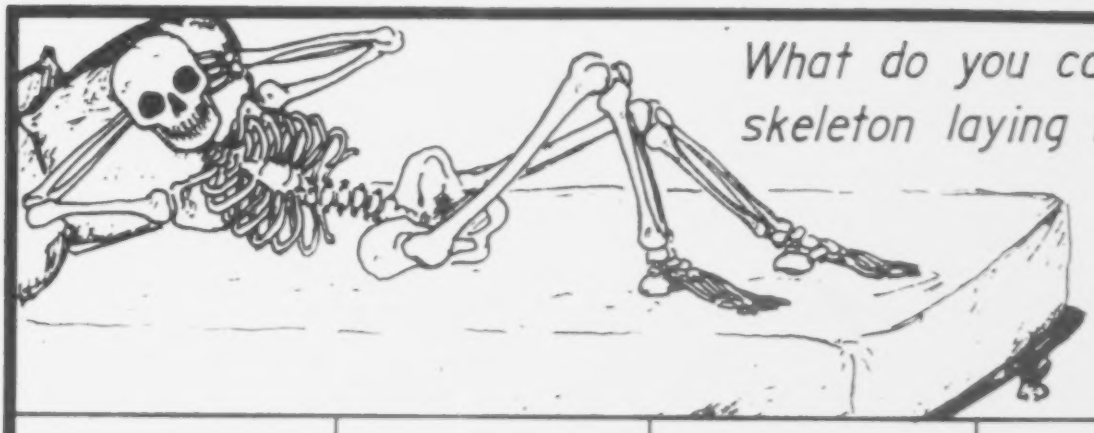
Volume = 10cm. x 5cm. x 5cm.

Volume = 250 cu. cm.

P.O. 4.07.03.01-.02

NAME: _____ CLASS: _____ DATE: _____

Solve each example. Use the key to solve the riddle by writing the letter for each answer in the box below the example.



What do you call a skeleton laying in bed?

5.07 +4.12 9.19 L	0.40 0.37 0.19 +0.02 0.98 A	4.36 -2.18 2.18 Z	7.63 +8.49 16.12 Y

0.60 0.12 0.28 +1.30 2.30 B	1.19 -0.83 0.36 O	1.06 1.10 3.22 +4.35 9.73 N	7.36 -5.36 2.00 E	3.60 4.16 1.01 +2.24 11.01 S

Key:

A	B	E	L	N	O	S	Y	Z
0.98	2.30	2.00	9.19	9.73	0.36	11.01	16.12	2.18

P.O. 4.07.03.03

NAME: _____ CLASS: _____ DATE: _____

Solve the problems below.

1. When Penny first started jogging, she ran 0.6 kilometers and then walked 0.75 kilometers. How far did she go in all?

She went 1.35 kilometers.

2. Soon Penny was able to run 3.36 miles and walk 2.81 miles. How far could she go then?

She could go 6.17 miles.

3. Penny ran in a race that was 5.50 miles long. After she ran 2.25 miles, how far did she still have to go?

She had 3.25 miles to go.

4. Robert bought 3.75 pounds of ham and cheese. There was 1.54 pounds of ham. How much cheese did he buy?

He bought 2.21 pounds of cheese.

5. Robert also bought two chickens. One chicken weighed 3.86 pounds and the other weighed 3.55 pounds. How much did the chickens weigh together?

The chickens weighed 7.41 pounds.

6. Robert bought 1.5 pounds of bologna and 1.8 pounds of salami. How much did the bologna and the salami weigh together?

The bologna and the salami weighed 3.3 pounds.

SHARPENING YOUR SKILLS

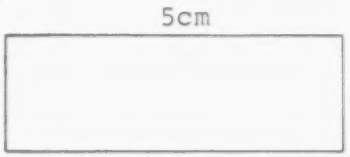
Units 59,60,61

Name: _____ **Class:** _____ **Date:** _____

1. Write the formula used to find the area of a rectangle.

Area = length x width

2. What is the area of the rectangle below?



(a) 14 sq. cm (c) 20 sq. cm

● 10 sq. cm (d) Not Here

3. Find the area of a rectangular garden that is 7 feet long and 6 feet wide.

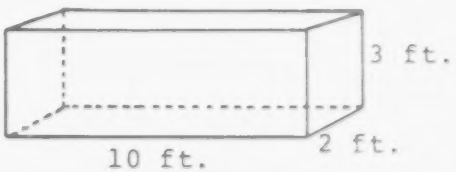
● 42 sq. ft. (g) 26 sq. ft.

(f) 13 sq. ft. (h) Not Here

4. Write the formula used to find the volume of a rectangular prism.

Volume = length x width x height

5. Find the volume.



(a) 15 cu. ft. ● 60 cu. ft.

(b) 30 cu. ft. (d) Not Here

6. Find the sum.

$$\begin{array}{r} 2.1 \\ 1.5 \\ +3.7 \\ \hline \end{array}$$

(e) 6.13 (g) 73.0

● 7.3 (h) Not Here

7. Add.

$$\begin{array}{r} 4.43 \\ +3.91 \\ \hline 8.34 \end{array}$$

8. Subtract and check.

$$\begin{array}{r} 8.7 \\ -1.9 \\ \hline 6.8 \end{array} \qquad \begin{array}{r} 6.8 \\ +1.9 \\ \hline 8.7 \end{array}$$

9. Find the difference.

$$\begin{array}{r} 5.6 \\ -2.4 \\ \hline \end{array}$$

(a) 8.0 (c) 0.32

(b) 32.0 ● Not Here

10. Bob bought 2.56 pounds of chopped meat and 1.98 pounds of pork chops. Find the total weight of meat.

(e) 0.58 pounds ● 4.54 pounds

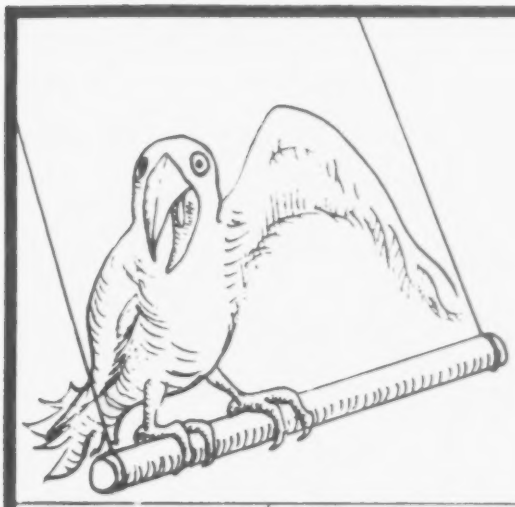
(f) 3.44 pounds (h) Not Here

11. How much greater is 2.5 than 1.43? 1.07

P.O. 4.07.04.01

NAME: _____ CLASS: _____ DATE: _____

Multiply. Use the key to solve the riddle.



What is another name for a parrot?

A				
W	O	R	D	Y
1	2	3	4	5
B	I	R	D	Y
6	7	8	9	10

①	②	③	④	⑤
0.6 × 0.4 = 0.24	1.7 × 0.6 = 1.02	1.6 × 0.7 = 1.12	0.9 × 0.6 = 0.54	7.4 × 0.2 = 1.48
⑥	**⑦**	**⑧**	**⑨**	**⑩**
7.1 × 0.8 = 5.68	1.2 × 0.8 = 0.96	5.6 × 0.2 = 1.12	1.8 × 0.3 = 0.54	3.7 × 0.4 = 1.48

Key	B	D	I	O	R	W	Y
	5.68	0.54	0.96	1.02	1.12	0.24	1.48

Do you remember?

	check		check		check
10,000	9,522	40,000	38,738	200,000	161,082
- 478	+ 478	- 1,262	+ 1,262	- 38,918	+ 38,918
9,522	10,000	38,738	40,000	161,082	200,000

P.O. 4.07.04.02

NAME: _____ CLASS: _____ DATE: _____

Solve and check the examples below.

① $6\overline{)30.6}$ → 5.1

check: $5.1 \times 6 = 30.6$

② $2\overline{)48.6}$ → 24.3

check: $24.3 \times 2 = 48.6$

③ $4\overline{)28.4}$ → 7.1

check: $7.1 \times 4 = 28.4$

④ $9\overline{)63.9}$ → 7.1

check: $7.1 \times 9 = 63.9$

⑤ $4\overline{)1.6}$ → 0.4

check: $0.4 \times 4 = 1.6$

⑥ $5\overline{)51.5}$ → 10.3

check: $10.3 \times 5 = 51.5$

⑦ $7\overline{)57.4}$ → 8.2

check: $8.2 \times 7 = 57.4$

⑧ $8\overline{)26.4}$ → 3.3

check: $3.3 \times 8 = 26.4$

P.O. 4.07.04.03

NAME: _____ CLASS: _____ DATE: _____

Solve the word problems below.

① At a ribbon cutting ceremony for a new Hall of Science, the mayor cut an 11.4 foot ribbon into 2 pieces exactly the same length. How long was each piece?

solve check

Each piece was 5.7 feet long.

② A space exhibit had 5 moon rocks. Each rock weighed 7.4 kilograms. What was the total weight of the moon rocks in the exhibit?

solve check

There were 37.0 kilograms of moon rocks in the exhibit.

③ A certain dinosaur's bones weighed 402.3 pounds. They had to be shipped in 3 crates. If all 3 crates were equal in weight, how many pounds of bones were in each?

solve check

There were 134.1 pounds of dinosaur bones in each crate.

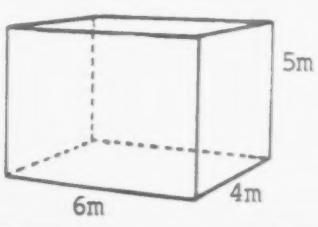
④ One very large space rock originally weighed 22.2 kilograms. It was cut into 3 equal pieces for the exhibit. How much did each piece weigh?

solve check

Each piece weighed 7.4 kilograms.

Do you remember?

Find the volume of the box below.



Volume = 120 cu. m

P.O. 4.01.07.01

NAME: _____ CLASS: _____ DATE: _____

Complete each pattern. Write the rule.
There may be more than one operation in each series.

18, 15, 12, 9, [6], [3]

Rule: subtract 3

2, 4, 3, 6, 5, [10], [9], [18], [17]

Rule: multiply by 2, subtract 1

3, 6, 12, 24, [48], [96], [192]

Rule: multiply by 2

5, 7, 9, 11, [13], [15], [17]

Rule: add 2

7, 9, 6, 8, 5, 7, [4], [6], [3], [5], [2]

Rule: add 2, subtract 3

CHALLENGE! Make up your own pattern. Write the rule.

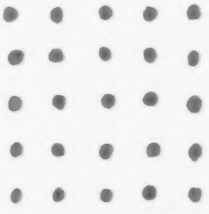
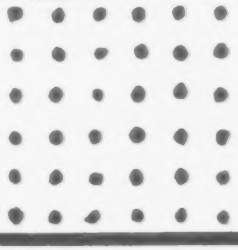
[ ], [ ], [ ], [ ], [ ]

Rule: Answers will vary.

P.O. 4.01.07.02

NAME: _____ CLASS: _____ DATE: _____

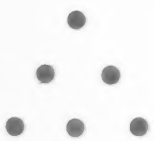
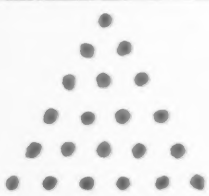
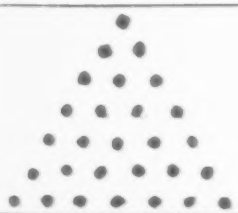
Follow the pattern to make the next three square arrays.
Write the square numbers.

Array	Square Number
	1
	4
	9
	16
	25
	36

P.O. 4.01.07.03

NAME: _____ CLASS: _____ DATE: _____

Follow the pattern to make the next four triangular shapes.
Write the triangular numbers.

Triangular Shapes	Triangular Numbers
	1
	3
	6
	10
	15
	21
	28

P.O. 4.01.08.01

NAME: _____ CLASS: _____ DATE: _____

Study the chart below. Use the information on the chart to help you answer the questions.

1980 Population of the Boroughs of New York City	
Borough	Population
Bronx	1,168,972
Brooklyn	2,230,936
Manhattan	1,428,285
Queens	1,891,325
Staten Island	351,121

1. Look at the population of Manhattan.

   The digit in the thousands place is 8.

   The digit in the millions place is 1.

   The digit in the hundred thousands place is 4.

2. Look at the population of Brooklyn.

   The digit in the ten thousands place is 3.

   The digit in the hundreds place is 9.

   The digit in the millions place is 2.

3. Which Borough's population has an 8 in the hundred thousands place? Queens

4. The population of the Bronx was 1,168,972 in 1980. In this number, the 9 represents 900 and the 6 represents 60,000.

5. The population of Staten Island was 351,121 in 1980. In this number, the 3 represents 300,000 and the 2 represents 20.

P.O. 4.01.08.02

NAME: _____ CLASS: _____ DATE: _____

See how we grew! Study the chart. Use the information on the chart to answer the questions.

1984 Population of Countries around the World	
Country	Population
Brazil	134,386,123
Canada	25,142,654
India	746,388,512
United States	236,690,153

1. Look at the population of the United States.

   The digit in the millions place is 6.
   The digit in the hundred millions place is 2.

2. Which country has a population greater than 5 hundred million? India

3. In 1984, the population of Brazil was 134,386,123.
   Draw a ring around the digit that represents 30,000,000.

4. In 1984, the population of Canada was 25,142,654.
   In this number, the 6 represents 600
   and the 1 represents 100,000.

5. Which country's population has a 2 in the ten millions place?

   Canada

Do you remember?

$3\overline{)\$4.26}$ $\$1.42$

check
$\$1.42 \times 3 = \$4.26$

$5\overline{)\$5.15}$ $\$1.03$

check
$\$1.03 \times 5 = \$5.15$

$2\overline{)\$8.44}$ $\$4.22$

check
$\$4.22 \times 2 = \$8.44$

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

I. Write each numeral below in expanded form.

35,467,121 = 30,000,000 + 5,000,000 + 400,000 + 60,000 + 7,000 + 100 + 20 + 1

1,180,267 = 1,000,000 + 100,000 + 80,000 + 200 + 60 + 7

537,286,005 = 500,000,000 + 30,000,000 + 7,000,000 + 200,000 + 80,000 + 6,000 + 5

46,500,296 = 40,000,000 + 6,000,000 + 500,000 + 200 + 90 + 6

279,381,666 = 200,000,000 + 70,000,000 + 9,000,000 + 300,000 + 80,000 + 1,000 + 600 + 60 + 6

II. Write the standard numeral for each expanded numeral below.

3,000,000 + 500,000 + 20,000 + 1,000 + 900 + 60 + 7 = 3,521,967

40,000,000 + 800,000 + 6,000 + 200 + 70 + 8 = 40,806,278

200,000,000 + 50,000,000 + 4,000,000 + 600,000 + 40,000 + 2,000 + 800 + 60 + 1 = 254,642,861

5,000,000 + 70 + 6 = 5,000,076

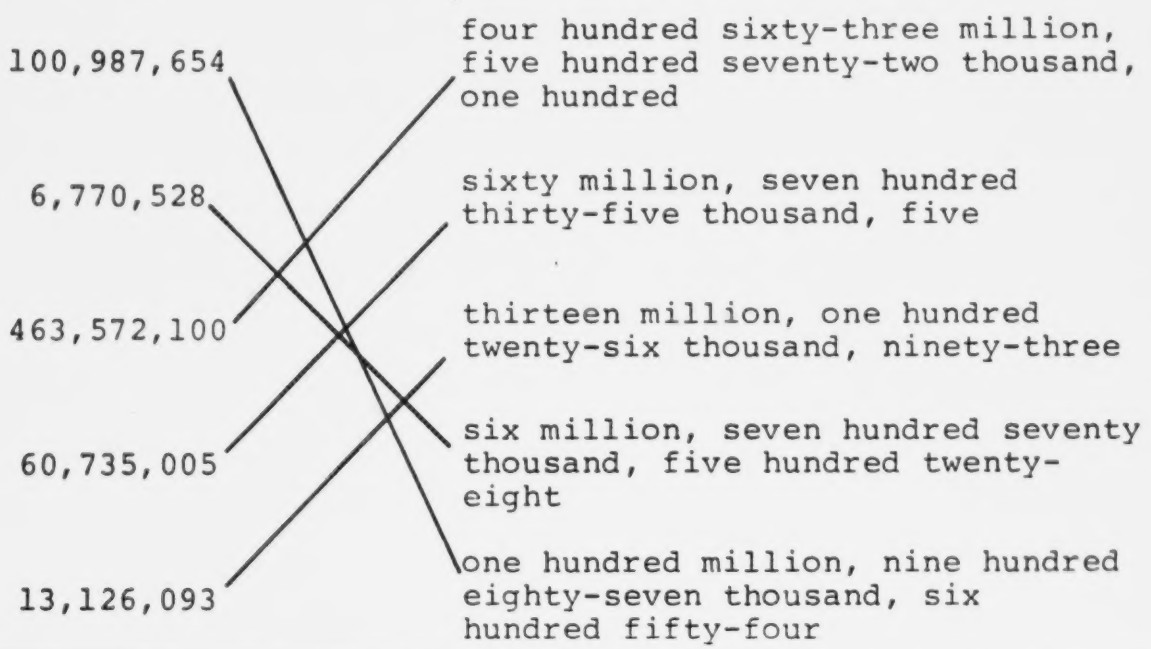
60,000,000 + 7,000,000 + 400,000 + 30,000 + 8,000 + 200 + 50 + 5 = 67,438,255

P.O. 4.01.08.05

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

I. Draw lines to match the numerals with the same amounts written in words.


100,987,654
6,770,528
463,572,100
60,735,005
13,126,093
four hundred sixty-three million, five hundred seventy-two thousand, one hundred
sixty million, seven hundred thirty-five thousand, five
thirteen million, one hundred twenty-six thousand, ninety-three
six million, seven hundred seventy thousand, five hundred twenty-eight
one hundred million, nine hundred eighty-seven thousand, six hundred fifty-four

II.

a. Write the numeral for seventeen million, two hundred seventy-six thousand, one hundred forty-four.

17,276,144

b. Write 24,763,219 in words.

Twenty four million, seven hundred sixty-three thousand, two hundred nineteen

CHALLENGE!

What is the probability of picking an ace from a full deck of cards?

The probability is $\frac{4}{52}$ OR $\frac{1}{13}$.

SHARPENING YOUR SKILLS

Units 62,63,64

Name: _____ Class: _____ Date: _____

1. Find the quotient and check.

$$4\overline{)12.8} \quad 3.2$$

check

$$\begin{array}{r} 3.2 \\ \times\ \ 4 \\ \hline 12.8 \end{array}$$

2. Find the quotient and check.

$$4\overline{)4.8} \quad 1.2$$

check

$$\begin{array}{r} 1.2 \\ \times\ \ 4 \\ \hline 4.8 \end{array}$$

3. What is the area of a rectangle that is 2.4 meters long and 0.6 meters wide?

(a) 14.4 sq. meters
(b) 3.0 sq. meters
● 1.44 sq. meters
(d) Not Here

4 Complete the series.

1, 5, 9, 13, 17, 21

5. Which of the following is a square number?

(e) 6 (g) 20
● 16 (h) Not Here

6. Draw the next triangular number.

1 3 6 10

7. Which numeral below has a 5 in the ten thousands column?

(a) 5,246,017 (c) 1,506,823
● 8,451,209 (d) 3,465,182

8. Which numeral below has a 7 in the millions place?

● 7,243,106 (g) 4,725,865
(f) 72,523,994 (h) Not Here

9. Which numeral means the same as 2,000,000 + 800,000 + 40,000 + 3,000 + 60 + 4 ?

(a) 284,364 ● 2,843,064
(b) 2,843,604 (d) Not Here

10. Write the following numeral in words.

25,467

Twenty five thousand, four hundred sixty seven

11. Which numeral means the same as seventy-four thousand, nine hundred eighty-eight?

(e) 704,988 (g) 74,980
● 74,988 (h) Not Here

P.O. 4.06.08.01

NAME:_____ CLASS:_____ DATE:_____

Follow the directions below.

I. Find the least common multiple for each pair of numerals below.

	Common Multiples	LCM
3	3, 6, 9, 12, 15	12
4	4, 8, 12, 16, 20	
2	2,4,6,8,10	10
5	5,10,15,20,25	

II. For each pair of fractions below, find equivalent fractions with a common denominator.

$\frac{1}{3}$ $\frac{1}{4}$ LCM of 3 and 4 = 12 $\frac{1}{3} = \frac{4}{12}$ $\frac{1}{4} = \frac{3}{12}$

$\frac{1}{2}$ $\frac{2}{5}$ LCM of 2 and 5 = 10 $\frac{1}{2} = \frac{5}{10}$ $\frac{2}{5} = \frac{4}{10}$

$\frac{3}{8}$ $\frac{1}{4}$ LCM of 8 and 4 = 8 $\frac{3}{8} = \frac{3}{8}$ $\frac{1}{4} = \frac{2}{8}$

P.O. 4.06.08.02-.03

NAME: _____ CLASS: _____ DATE: _____

Solve the examples below.

① LCM = 8

$\frac{1}{2} = \frac{4}{8}$

$+\frac{3}{8} = \frac{3}{8}$

$\frac{7}{8}$

② LCM = 10

$\frac{2}{5} = \frac{4}{10}$

$+\frac{3}{10} = \frac{3}{10}$

$\frac{7}{10}$

③ LCM = 24

$\frac{2}{3} = \frac{16}{24}$

$-\frac{3}{8} = \frac{9}{24}$

$\frac{7}{24}$

④ LCM = 8

$\frac{5}{8} - \frac{1}{4} = \square$

$\frac{5}{8} - \frac{2}{8} = \frac{3}{8}$

⑤ LCM = 10

$\frac{3}{5} - \frac{1}{10} = \square$

$\frac{6}{10} - \frac{1}{10} = \frac{5}{10}$

⑥ LCM = 9

$\frac{4}{9} + \frac{1}{3} = \square$

$\frac{4}{9} + \frac{3}{9} = \frac{7}{9}$

⑦ LCM = 12

$\frac{2}{3} = \frac{8}{12}$

$-\frac{1}{4} = \frac{3}{12}$

$\frac{5}{12}$

⑧ LCM = 6

$\frac{3}{6} + \frac{1}{2} = \square$

$\frac{3}{6} + \frac{3}{6} = \frac{6}{6} = 1$

⑨ LCM = 12

$\frac{3}{12} - \frac{1}{6} = \square$

$\frac{3}{12} - \frac{2}{12} = \frac{1}{12}$

CHALLENGE! Find the sum.

$$\frac{1}{2} + \frac{1}{3} + \frac{1}{4} = \frac{13}{12} \text{ or } 1\frac{1}{12}$$

P.O. 4.06.08.04

NAME: _____ CLASS: _____ DATE: _____

Solve the problems below.

1. Millie bought $\frac{1}{2}$ pound of ham and $\frac{1}{4}$ pound of cheese. How much did the two items weigh together?

The ham and cheese weighed $\frac{3}{4}$ pound.

2. Sandy bought $\frac{7}{8}$ pound of pistachio nuts and $\frac{3}{4}$ pound of cashews. How much more did the pistachio nuts weigh than the cashews?

The pistachio nuts weighed $\frac{1}{8}$ pound more.

3. Jesse ran $\frac{3}{4}$ mile. He stopped to rest and then he ran $\frac{1}{8}$ mile farther. How far did Jesse run in all?

Jesse ran $\frac{7}{8}$ mile.

4. Bill spent $\frac{1}{3}$ hour washing the dishes. Then he spent $\frac{1}{4}$ hour drying the dishes. How much more time did he spend washing dishes than drying them?

Bill spent $\frac{1}{12}$ hour more washing the dishes.

P.O. 4.04.05.01

NAME: _____ CLASS: _____ DATE: _____

Multiply. Use the key to solve the riddle.

What begins with "e" and ends with "e" and has only one letter in it?

①	②	③	④	⑤
20 x10 = 200	20 x20 = 400	30 x20 = 600	40 x10 = 400	70 x30 = 2,100
⑥	**⑦**	**⑧**	**⑨**	**⑩**
60 x10 = 600	40 x20 = 800	30 x10 = 300	40 x60 = 2,400	20 x30 = 600

Key

A	E	L	N	O	P	V
200	600	800	400	300	2,400	2,100

Answer

A	N		E	N	V	E	L	O	P	E
①	②		③	④	⑤	⑥	⑦	⑧	⑨	⑩

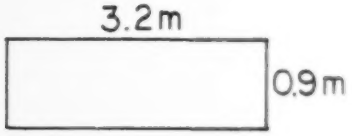
P.O. 4.04.05.02

NAME: _____ CLASS: _____ DATE: _____

Solve the examples below.

①	②	③	④
34 × 20 = 680	14 × 40 = 560	72 × 40 = 2,880	65 × 60 = 3,900
⑤	⑥	⑦	⑧
53 × 70 = 3,710	91 × 10 = 910	32 × 40 = 1,280	44 × 50 = 2,200
⑨	⑩	⑪	⑫
52 × 20 = 1,040	43 × 30 = 1,290	15 × 10 = 150	22 × 40 = 880

Do you remember? Find the area of a rectangle with a length of 3.2 meters and a width of 0.9 meters.



area = 2.88 square meters

P.O. 4.04.05.03 & .05

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

I. Complete each example.

① 32 x23 = 96 + 640 = 736	② 41 x22 = 82 + 820 = 902	③ 25 x11 = 25 + 250 = 275	④ 33 x22 = 66 + 660 = 726
⑤ 13 x33 = 39 + 390 = 429	⑥ 24 x22 = 48 + 480 = 528	⑦ 43 x12 = 86 + 430 = 516	⑧ 32 x32 = 64 + 960 = 1,024

II. Solve the problems below.

1. There are 22 rows in the auditorium. Each row has 22 seats. How many seats are there in the auditorium?

484 seats

solve

2. How many eggs are there in 21 dozen?

252 eggs

solve

P.O. 4.04.05.04-.05

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

A. Complete each example.

① 35 × 23 = 105 + 700 = 805	② 42 × 54 = 168 + 2,100 = 2,268	③ 37 × 35 = 185 + 1,110 = 1,295	④ 87 × 32 = 174 + 2,610 = 2,784
⑤ 58 × 27 = 406 + 1,160 = 1,566	⑥ 63 × 45 = 315 + 2,520 = 2,835	⑦ 29 × 18 = 232 + 290 = 522	⑧ 36 × 72 = 72 + 2,520 = 2,592

B. Solve the problems below.

1. The school received 72 boxes of chalk with 24 pieces of chalk in each box. How many pieces of chalk were there in all? 1,728 pieces of chalk	solve
2. The school received construction paper in twelve different colors. There were 65 sheets of each color. How many sheets of construction paper did the school receive? 780 sheets of construction paper	solve
3. There were 93 packages of oaktag. Each package had 36 sheets of oaktag. How much oaktag was there in all? 3,348 sheets of oaktag	solve

SHARPENING YOUR SKILLS

Units 65,66

Name: _____ **Class:** _____ **Date:** _____

1. Solve.

$\frac{1}{3} + \frac{2}{6} = \square$

● $\frac{2}{3}$ ⓒ $\frac{3}{9}$

ⓑ $\frac{1}{3}$ ⓓ $\frac{3}{6}$

2. $42 \times 10 = \square$

ⓔ 402 ● 420

ⓕ 142 ⓗ Not Here

3. How much more is $\frac{2}{3}$ than $\frac{1}{4}$?

ⓐ 1 ⓒ $\frac{3}{7}$

● $\frac{5}{12}$ ⓓ $\frac{11}{12}$

4. $\frac{\frac{8}{10}}{-\frac{2}{5}}$

ⓔ $\frac{1}{2}$ ⓖ $\frac{3}{10}$

ⓕ $\frac{6}{10}$ ● Not Here

5. The ice cube maker in Danielle's refrigerator makes 18 ice cubes every hour. How many ice cubes can it make in 12 hours?

ⓐ 206 ⓒ 168

● 216 ⓓ 30

6. The road repair crew used $\frac{1}{2}$ barrel of tar yesterday and $\frac{1}{3}$ barrel of tar today. How many barrels of tar did they use during these 2 days?

● $\frac{5}{6}$ ⓖ $\frac{1}{6}$

ⓕ $\frac{1}{5}$ ⓗ Not Here

7. The chart shows how much time David spends exercising each week. Complete the chart. Remember! There are 52 weeks in a year.

Time David Spends Exercising

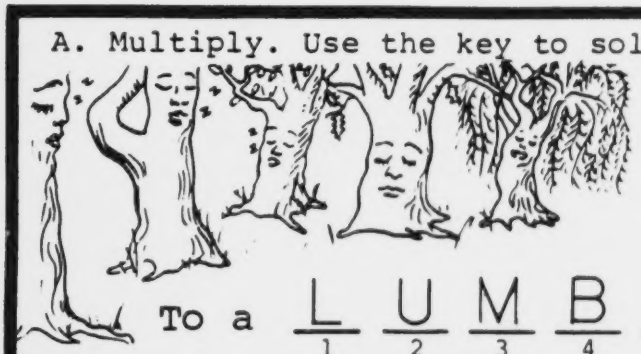
Exercise	Weekly	Yearly
Swimming	40 minutes	2,080 minutes
Jogging	60 minutes	3,120 minutes
Bicycling	35 minutes	1,820 minutes
Total	135 minutes	7,020 minutes

P.O. 4.04.06.01 & .04

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

A. Multiply. Use the key to solve the riddle.



Where does a tree go on Saturday night?

To a L U M B E R P A R T Y
1 2 3 4 5 6 7 8 9 10 11

①	②	③	④	⑤	⑥
100 x 10 = 1,000	200 x 10 = 2,000	300 x 20 = 6,000	700 x 30 = 21,000	500 x 10 = 5,000	600 x 20 = 12,000

⑦	⑧	⑨	⑩	⑪
700 x 10 = 7,000	300 x 30 = 9,000	300 x 40 = 12,000	400 x 10 = 4,000	900 x 30 = 27,000

Key

A	B	E	L	M	P	R	T	U	Y
9,000	21,000	5,000	1,000	6,000	7,000	12,000	4,000	2,000	27,000

B. Solve the problem below.

Three hundred barrels of oil were delivered to the Acme Oil Company. Each barrel holds 50 gallons of oil. How many gallons of oil were delivered?

15,000 gallons

solve

Do you remember?

3.9	4.25	8.4	6.43	14.06
-1.2	+1.16	-2.15	+2.9	- 3.21
2.7	5.41	6.25	9.33	10.85

P.O. 4.04.06.02 & .04

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

A. Complete each example.

① 215 x 20 = 4,300	② 324 x 30 = 9,720	③ 705 x 50 = 35,250	④ 553 x 10 = 5,530
⑤ 816 x 40 = 32,640	⑥ 279 x 10 = 2,790	⑦ 571 x 20 = 11,420	⑧ 749 x 10 = 7,490
⑨ 366 x 30 = 10,980	⑩ 641 x 60 = 38,460	⑪ 928 x 50 = 46,400	⑫ 109 x 80 = 8,720

B. Solve the problems below.

1. A box contains 144 pencils. How many pencils will there be in 40 boxes?

   5,760 pencils

solve

2. Mr. Carter drives a total of 315 miles to and from work each week. How many miles does he travel in 10 weeks?

   3,150 miles

solve

P.O. 4.04.06.03-.04

NAME:_____ CLASS:_____ DATE:_____

Follow the directions below.

A. Complete each example below.

①	②	③	④
318 x 52 636 15,900 16,536	194 x 83 582 15,520 16,102	563 x 34 2,252 16,890 19,142	435 x 28 3,480 8,700 12,180
⑤	⑥	⑦	⑧
756 x 65 3,780 45,360 49,140	225 x 15 1,125 2,250 3,375	624 x 25 3,120 12,480 15,600	845 x 72 1,690 59,150 60,840

B. Solve the problems below.

1. There are 27 packages of dinner napkins on the supermarket shelf. If there are 125 napkins in each package, how many napkins are there in all?

3,375 napkins

solve

2. Find the area of a field that is 243 feet long and 29 feet wide.

7,047 sq. ft.

solve

P.O. 4.05.07.01 & .03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

A. Find the quotients and check.

① $10\overline{)45}$ = 4 R 5

check: $4 \times 10 = 40$; $40 + 5 = 45$

② $10\overline{)79}$ = 7 R 9

check: $7 \times 10 = 70$; $70 + 9 = 79$

③ $30\overline{)62}$ = 2 R 2

check: $2 \times 30 = 60$; $60 + 2 = 62$

④ $40\overline{)92}$ = 2 R 12

check: $2 \times 40 = 80$; $80 + 12 = 92$

⑤ $20\overline{)86}$ = 4 R 6

check: $4 \times 20 = 80$; $80 + 6 = 86$

⑥ $50\overline{)68}$ = 1 R 18

check: $1 \times 50 = 50$; $50 + 18 = 68$

B. Solve the problems.

1. Jerry had 80 pennies. He made stacks of 20 pennies each. How many stacks did he make?

   He made 4 stacks.

   solve

   check

2. Mandy baked 44 cookies. If she puts 10 cookies on each plate, how many plates will she need? How many cookies will be left over?

   She will need 4 plates.

   There will be 4 cookies left over.

   solve

   check

P.O. 4.05.07.02-.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

A. Find the quotients and check.

① $10\overline{)360}$ = 36

check: 36 × 10 = 360

② $10\overline{)592}$ = 59 R 2

check: 59 × 10 = 590; 590 + 2 = 592

③ $40\overline{)441}$ = 11 R 1

check: 11 × 40 = 440; 440 + 1 = 441

④ $30\overline{)965}$ = 32 R 5

check: 32 × 30 = 960; 960 + 5 = 965

⑤ $50\overline{)605}$ = 12 R 5

check: 12 × 50 = 600; 600 + 5 = 605

⑥ $80\overline{)892}$ = 11 R 12

check: 11 × 80 = 880; 880 + 12 = 892

B. Solve the problems below.

1. There are 320 beads. If 10 beads are placed on each bracelet, how many bracelets can be made?

   32 bracelets

   solve check

2. There are 480 students in the auditorium. If 20 students sit in each row, how many rows of students are there?

   24 rows

   solve check

P.O. 4.05.08.01 & .03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

A. Divide and check.

① $15\overline{)64}$ = 4R4

check: 15 × 4 = 60; 60 + 4 = 64

② $11\overline{)95}$ = 8R7

check: 11 × 8 = 88; 88 + 7 = 95

③ $22\overline{)78}$ = 3R12

check: 22 × 3 = 66; 66 + 12 = 78

④ $31\overline{)93}$ = 3

check: 31 × 3 = 93

⑤ $41\overline{)77}$ = 1R36

check: 41 × 1 = 41; 41 + 36 = 77

⑥ $28\overline{)84}$ = 3

check: 28 × 3 = 84

B. Solve the problem below. Check your answer.

① Sue collected 90 pine cones for her nature study class. If she puts 15 pine cones in each bag, how many bags will she need?

6 bags

solve

check

② Randy picked 78 daisies. If he places 12 daisies in each vase, how many vases will he fill?

He will fill 6 vases.

There will be 6 extra daisies.

solve

check

P.O. 4.05.08.02-.03

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

A. Divide and check.

① $11\overline{)135}$ = 12R3

check: 12 × 11 = 132; 132 + 3 = 135

② $25\overline{)650}$ = 26

check: 26 × 25 = 130 + 520 = 650

③ $34\overline{)378}$ = 11R4

check: 11 × 34 = 374; 374 + 4 = 378

④ $28\overline{)570}$ = 20R10

check: 20 × 28 = 560; 560 + 10 = 570

⑤ $19\overline{)399}$ = 21

check: 21 × 19 = 189 + 210 = 399

⑥ $41\overline{)945}$ = 23R2

check: 23 × 41 = 943; 943 + 2 = 945

B. Solve the problem below.

A box of cereal weighs 252 grams. If one serving of cereal weighs 21 grams, how many servings does the box of cereal contain?

12 servings

solve check

Do you remember?

The least common multiple of 3 and 4 is 12.

The least common multiple of 4 and 6 is 12.

The least common multiple of 5 and 7 is 35.

SHARPENING YOUR SKILLS

Units 67, 68, 69

Name: _____ **Class:** _____ **Date:** _____

1. $\begin{array}{r} 300 \\ \times\ 40 \\ \hline \end{array}$

(a) 1,200 (c) 120

● 12,000 (d) Not Here

2. $\begin{array}{r} 436 \\ \times\ 50 \\ \hline \end{array}$

(e) 2,180 ● 21,800

(f) 20,500 (h) Not Here

3. Find the product.

$$\begin{array}{r} 217 \\ \times\ 33 \\ \hline 651 \\ 6510 \\ \hline 7,161 \end{array}$$

4. $10\overline{)830}$

(a) 8 R3 (c) 83 R3

(b) 80 R3 ● Not Here

5. $21\overline{)448}$

(e) 20 R8 ● 21 R7

(f) 22 (h) Not Here

6. A bakery delivered 420 cookies in boxes of 10 cookies each. How many boxes of cookies were delivered?

42 boxes of cookies

7. There are 144 pencils in a box. How many pencils will be in a dozen boxes?

1,728 pencils

8. The book Nat is reading has 180 pages. If Nat reads 15 pages each day, how many days will it take him to finish the book?

12 days

9. Sandy has 624 pennies. If she makes stacks of 20 pennies each, how many stacks can she make? How many pennies will be left over?

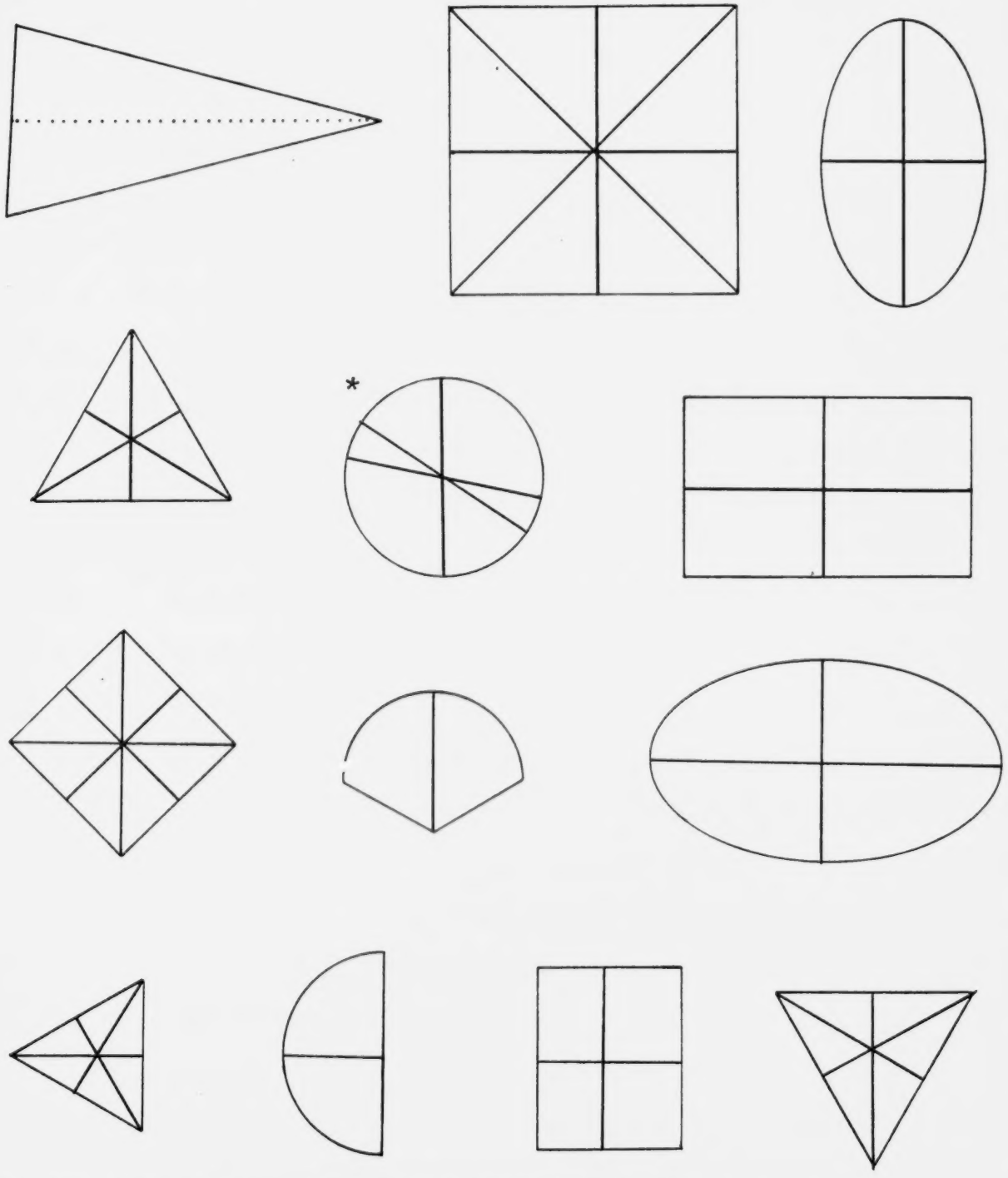
31 stacks

4 pennies left over

P.O. 4.09.06.01

NAME: _____ CLASS: _____ DATE: _____

Draw one or more lines of symmetry for each shape.

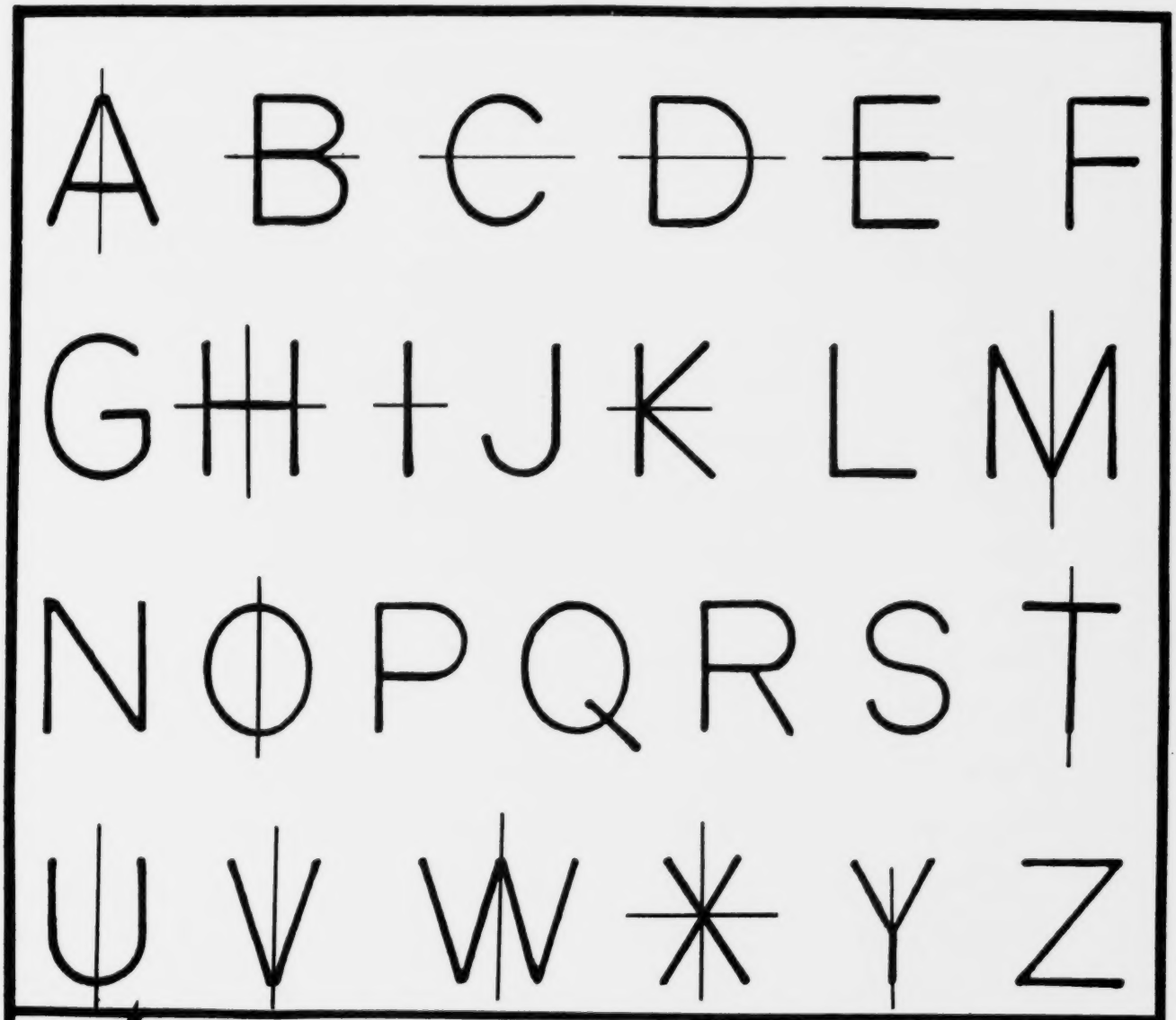


* Any line segment that passes through the center of the circle will be a line of symmetry.

P.O. 4.09.06.02

NAME: _____ CLASS: _____ DATE: _____

Find the letters which have lines of symmetry. Draw the line of symmetry.



CHALLENGE! Print two more words that have a line of symmetry. Draw the line of symmetry.

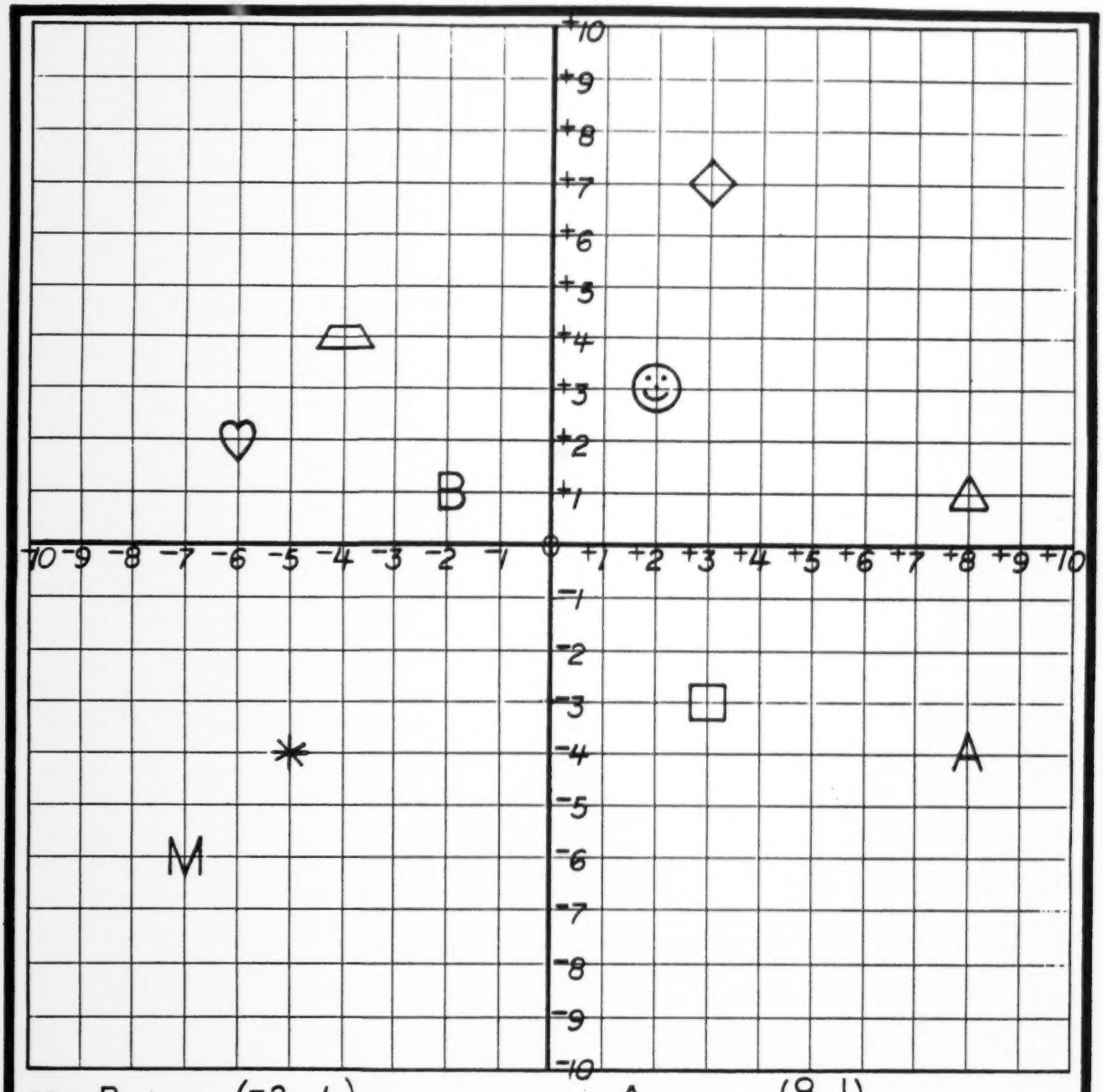
B E D

Answers will vary.

P.O. 4.09.07.01

NAME: _____ CLASS: _____ DATE: _____

Locate the coordinates.



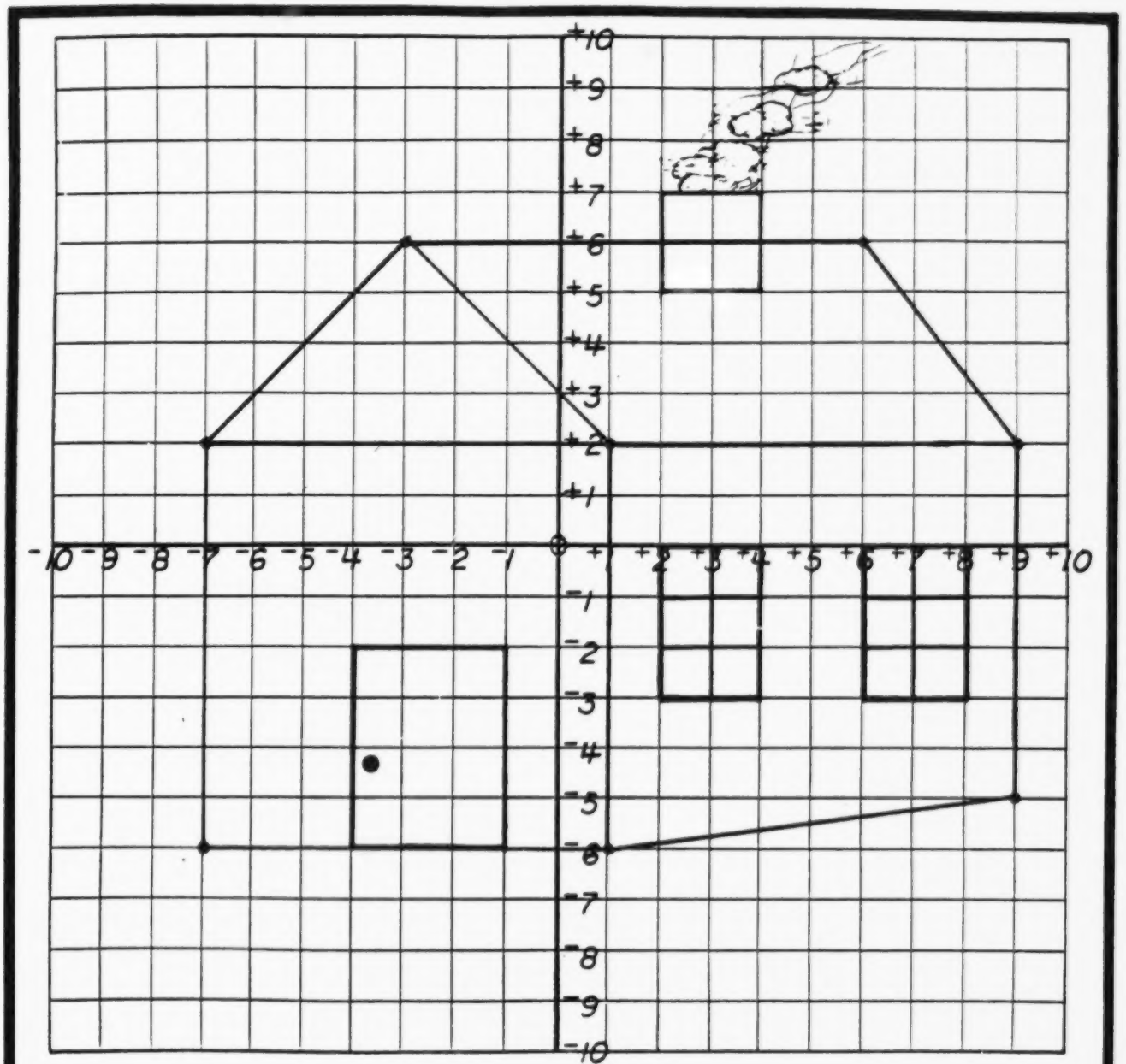
The B is at (-2, 1).
The ♡ is at (-6, 2).
The ◇ is at (3, 7).
The □ is at (3, -3).
The ✳ is at (-5, -4).

The △ is at (8, 1).
The ⏢ is at (-4, 4).
The M is at (-7, -6).
The A is at (8, -4).
The ☺ is at (2, 3).

P.O. 4.09:07.02

NAME: _____ CLASS: _____ DATE: _____

Locate the coordinates. Connect the points in order.



① (-7,-6)
② (-7,2)
③ (-3,6)
④ (1,2)
⑤ (1,-6)
⑥ (-7,-6)
⑦ (1,-6)
⑧ (9,-5)
⑨ (9,2)
⑩ (6,6)
⑪ (-3,6)
⑫ (-7,2)
⑬ (1,2)
⑭ (9,2)

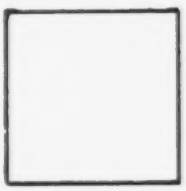
P.O. 4.09.08.01

NAME:_____ CLASS:_____ DATE:_____

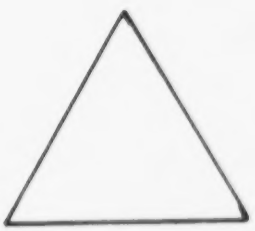
Follow the directions below.

Draw two circles, one inside the other, in this space.

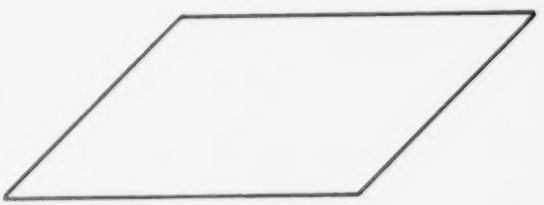
Draw a square in this space.



Draw a triangle in this space.



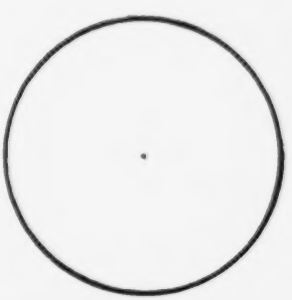
Draw a parallelogram in this space.



CHALLENGE!

Draw a circle with a radius of 2 cm.

Hint: Draw the radius first.



P.O. 4.06.09.01

NAME: _____ CLASS: _____ DATE: _____

Follow the directions below.

Write a ratio for each picture below.

①

The ratio of socks to shoes is 4 to 3.

②

The ratio of knives to forks is 2 to 5.

③

The ratio of girls to boys is 2 to 3.

The ratio of girls to all the children is 2 to 5.

④

The ratio of circles to squares is 5 to 3.

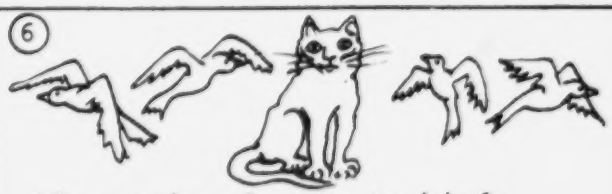
The ratio of squares to all the figures is 3 to 8.

Write each ratio below as a fraction.

⑤

The ratio of black marbles to white marbles is 7 to 3.

The ratio of white marbles to all the marbles is 3 to 10.

⑥ 

The ratio of cats to birds is 1 to 4.

The ratio of birds to cats is 4 to 1.

Do you remember?

Round each number to the nearest hundred.

279 rounds to 300.

3,420 rounds to 3,400.

741 rounds to 700.

14,501 rounds to 14,500.

P.O. 4.06.09.02

NAME:_____ CLASS:_____ DATE:_____

Solve the problems below.

1. Jackie set the table with 4 knives, 4 forks, and 4 spoons. What is the ratio of forks to all the items?

4 to 12

2. The ratio of boys to girls in class 4-408 is $\frac{14}{18}$. How many students are in the class?

32 students

3. Martha's punch recipe calls for 1 cup of orange juice and 2 cups of cranberry juice. If she wants to double the recipe, she should use 2 cups of orange juice and 4 cups of cranberry juice.

4. The ratio of pencils to students is 24 to 6. If the students share the pencils equally, how many pencils will each student get?

4 pencils

5. If 2 pens cost 40¢, what will 4 pens cost?

4 pens will cost 80¢

6. There are 30 students in class 4-201. If 12 of the students are boys, what is the ratio of boys to girls?

12 to 18

CHALLENGE!

There were 12 boys and 15 girls in the library. Two boys and two girls left the library. Then, four more boys and five more girls came into the library. What is the ratio of boys to girls now?

The ratio of boys to girls is 14 to 18.

SHARPENING YOUR SKILLS

Units 70, 71, 72, 73

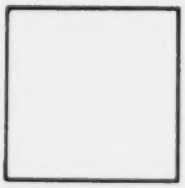
Name: _____ **Class:** _____ **Date:** _____

1. Draw a ring around the letter below that has a line of symmetry. Draw the line of symmetry.

F L M Z

2. Draw two lines of symmetry in the figure below.

3. Use a ruler to draw a square. Each side should measure 1 inch.



4.

The ratio of circles to triangles is 4 to 6.

5. The ratio of girls to boys in your class is ___ to ___.

Answers will vary.

6. If 3 pretzels cost 10¢, what will 6 pretzels cost?

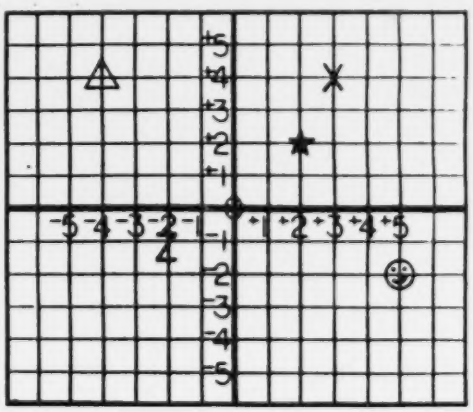
(a) 16¢ (c) 9¢

● 20¢ (d) Not Here

7. If 4 pencils cost 20¢, what will one pencil cost?

● 5¢ (g) 16¢

(f) 24¢ (h) Not Here

8. 

(a) Place an X at (3,4).

(b) Place a Z at (-2,-1).

(c) Draw a ☺ at (5,-2).

(d) Draw a △ at (-4,4).

(e) The star is at (2,2).

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